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PROGRESS REPORT

ON

FOREST ADMINISTRATION

IN

LOWER BURMA

FOR

1889-90.

By Major C. T. BINGHAM and E. P. POPERT, Esq.,
CONSERVATORS OF FORESTS.

WITH A REVIEW BY THE CHIEF COMMISSIONER AND THE ORDERS OF THE GOVERNMENT OF INDIA.

RANGOON:

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1890

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No. 922-F., dated Simla, the 29th October 1890.

From—SIR E. C. BUCK, KT., Secretary to the Government of India, Revenue and Agricultural Department,

To—The Chief Commissioner of Burma.

I AM directed to acknowledge the receipt of Mr. Kynoch's letter No. 485-65-M., dated the 18th August last, forwarding, within the period prescribed for its submission, the Progress Report of Forest Administration in Lower Burma for the year 1889-90, together with your Resolution thereon.

2. The recorded area of the Reserved Forests was increased from 5,111 to 5,574 square miles. The additional area comprised 18 square miles reserved in the Tenasserim Circle and 431 square miles in the Pegu Circle, the balance of 14 square miles being due to a rectification of areas consequent on more accurate surveys.

The area of Reserved Forests at the close of the year was:—

Circle.	Forest area.	Taungya area.	Total Reserves.	Proportion of Forests to total area of Province (87,220 square miles).
	Square miles.	Square miles.	Square miles.	Per cent.
Pegu	3,345	418	3,763	5
Tenasserim	1,799	12	1,811	2
TOTAL ...	5,144	430	5,574	7

The Government of India are glad to learn that the subject of the Cutch supply of the future is receiving your attention, and consider that the results of the experiment of setting apart village Cutch forests in the Thayetmyo District will have an important bearing on this serious question.

It is also observed with satisfaction that the settlement of some proposed Cutch reserves in the Sinbaungwe township, Thayetmyo District, approached completion, and that further proposals for the reservation of Teak and Padouk-producing tracts, as well as of certain fuel and fodder reserves, were being dealt with.

3. The adequate demarcation of areas under permanent forest management is important, and the Government of India are, therefore, glad to observe that, with one or two exceptions, the boundaries of all sanctioned Reserves have now been demarcated, and that the repair and renewal of boundary-marks have been attended to in both Circles.

4. The outturn of work of the Imperial Survey Department compared unsatisfactorily with that of previous years, which has always been regarded as small and proportionately costly. During the year 171 square miles of detailed surveys on the 4-inch scale were executed, and 240 square miles are reported to have been traversed over. This amount of work does not, on the data received, appear to be commensurate with the total expenditure, estimated at Rs. 1,08,900. It is stated that the party was late in taking the field, owing to an attack of cholera in Calcutta, and afterwards suffered from illness in the specially malarious forests of the Toungoo District during an exceptionally unhealthy season. These causes are accepted as in some measure explanatory of the little progress made at an excessive cost; but, in the opinion of the Government of India, they indicate the desirability of making these surveys as far as possible by the agency of surveyors and men recruited and taught in Burma who are less liable to be prostrated by the climate and are more easily supplied with food. Experience has now shown that Burmans can be successfully trained as surveyors, and every effort should be made to utilize them. In the event of the proposal to employ a section of the Forest Survey Branch in the Tenasserim Circle being carried into effect, His Excellency the Governor-General in Council desires that this consideration may be kept in view; and, in furtherance of the employment of local men,

suggests that, in selecting an officer of the Controlling Staff to supervise the work, you should give the preference to an officer who is thoroughly conversant with Burmese, as well as with surveying.

5. Progress in the preparation of Working-Plans was limited to the Pegu Circle, where a Plan for the Bawbin-Minbu forests was framed, and the field-work for a Plan of the Taungnyo forests completed. Further progress was prevented by the illness of both the officers engaged in the work. Yearly plans-of-operations were prepared in both Circles during the year under review.

6. The number of forest offences prosecuted or compounded, compared with those of the previous year, was as follows :—

Circle.	Number of New Cases.			Proportion of Convictions to total number of cases taken into Court.
	Taken into Court.	Compounded.	Total.	
				Per cent.
Pegu	153	775	928	93
Tenasserim	188	124	312	96
Total in 1889-90	341	899	1,240	94
" " 1888-89	365	403	768	88
Increase or decrease in 1889-90	—24	+496	+472	+ 6

The fact that fewer cases were taken into court and a higher percentage of convictions obtained is satisfactory; but it is also noticed that a very much larger number of cases was compounded in the Pegu Circle, owing, the Conservator explains, to teak-taungya cultivators in the Reserves being punished for destroying teak trees within their 'yas' in spite of often repeated warnings.

The encroachments described in paragraph 11 of Mr. Popert's Report show that the taungya-cutting population are ready to take advantage of any opportunity to resume their old nomadic habits.

7. The results of fire-protective measures are summarised in paragraph 8 of your Resolution, and exhibit a marked improvement on those of the previous year. It is to be regretted that fire-protection should have been least successful in the important Tharrawaddy Division, and that so considerable an area of plantations as 461 acres should have been traversed by fires. The adoption of any special measures by which the number and destructiveness of the fires in the forests of that Division can be reduced is well worthy of the consideration which, the Government of India notice, you are prepared to give to the matter.

8. Slight additions only, aggregating 30 acres, were made to the regular plantations of the Pegu Circle at Kyetpyugan and Mágáyi.

The area under taungya plantations was enlarged in the Pegu Circle by 215 acres of teak and cutch mixed and 2,316 acres of pure teak; while 1,170 acres were fully stocked and 86 acres partially with teak in the Tenasserim Circle. It is observed that the Conservator of the Pegu Circle excludes from his returns all areas having fewer than 500 seedlings per acre, whereas the Conservator of the Tenasserim Circle takes credit for 86 acres with less than 400 plants per acre. The desirability of adopting a uniform standard in both Circles is evident, and I am desired to point this out. The entire area planted during the year under review was 3,787 acres. The Tenasserim Circle contributed nearly double the area of the previous year, and in the Pegu Circle no less than 2,531 acres were cultivated, compared with 1,810 in 1888-89. These results are exceptionally satisfactory, and may be held to show conclusively that the Karens are appreciating the benefits which they derive from being employed to plant teak in the areas cleared by them for temporary cultivation.

The area of plantations, &c., in the two Circles stood at the close of the year as follows :—

Circle.	Area, in Acres, of			
	Regular Plantations.	Taungya Plantations.	Cultural Operations.	Total.
Pegu	3,875	13,972	3,213	21,060
Tenasserim	23	5,634	111	5,768
Total ...	3,898	19,606	3,324	26,828

9. Improvement fellings and girdlings were made in the Pegu Circle over an area of 21,411 acres at a cost of Rs. 4,881, but no similar operations were undertaken in the Tenasserim Circle. The weeding of plantations, it is gathered from the Conservators' Reports, was everywhere specially well carried out during the year under review. The desirability of ameliorating the natural teak forests by means of improvement fellings, such as are prescribed in the Working-Plans of the Tharrawaddy forests, should, the Government of India consider, be constantly kept in view, as affording a cheap means of increasing the proportion of teak and other valuable trees in the forest crop. Too much importance, it need hardly be said, can scarcely be attached to the freeing of the seedlings from dominant bamboos and inferior species in plantations which have been artificially raised at considerable cost.

10. The floating season was exceptionally favourable and the outturn of timber exceeded that of 1888-89 by more than 38,000 tons, notwithstanding that the outturn of that year had been the highest on record and in excess of the yield of the preceding year by nearly 34,000 tons. The extractions of teak aggregated 79,465 tons, while those of other woods reached 133,408 tons; making a total of 212,873 tons.

The quantity of teak timber worked out by purchasers, other than the lease-holders in the Tenasserim Circle, was more than 15,000 tons, as compared with 1,441 tons in the previous year. This is explained by the girdled timber having been sold standing in certain forests of the Toungoo District on terms similar to those granted to licensees of the ex-king in Upper Burma. Disposed of in this way, a price of Rs. 21 and Rs. 22½ per ton was realized, or more than double the amount charged on timber extracted from the greater part of the forests of Upper Burma under the agreements concluded with the holders of licenses obtained under the late Burmese Government.

The outturn of timber, fuel, bamboos, and other produce is tabulated in the following statement :—

Class.	Timber.	Fuel.	Bamboos.	Other Minor Produce.
	c. ft.	c. ft.	No.	Value in Rs.
Reserved Forests.				
Government agency ...	914,132	...	3,000	...
Purchasers	736,980	22,400	2,169,025	90,083
Right-holders	71,070	...	57,485	561
Free-grants	...	...	...	...
Total ...	1,722,182	22,400	2,229,510	90,644
Unclassed Forests.				
Government agency ...	2,378,445	50	...	...
Purchasers	6,482,260	594,919	...	69,557
Right-holders	45,470	...	...	...
Free-grants	15,351	...	...	...
Total ...	8,921,526	594,969	...	69,557
Grand Total in 1889-90 ...	10,643,708	617,369*	2,229,510	1,60,201
" " 1888-89 ...	8,737,279	Not given.	2,028,450	1,51,861
Increase in 1889-90 ...	1,906,429	Not calculable	201,060	8,340

* The total quantity of firewood used in the Tenasserim Circle cannot be given, as licenses are issued for the number of men engaged and not for the quantity of wood consumed. In future years the quantity of fuel so removed should be estimated and included in the returns.

The quantity of bamboos extracted from Reserves continues to increase steadily; and a specially noticeable fact is the marked falling off of the revenue from cutch from Unclassed Forests. In 1888-89 these forests yielded Rs. 1,14,230, and only Rs. 66,195 during the year under review. The deficiency is at present being made up to some extent from the Reserves, which brought in an increased revenue from cutch of Rs. 56,000.

The growing tendency to adulterate cutch is to be regretted, and any means of prevention that can be easily applied should without doubt be adopted. At the same time, it appears to the Government of India that it is a question whether merchants and others interested in the trade may not be in a better position, than is the Government, to effectively combat the evil by applying simple tests and declining to purchase adulterated consignments.

11. The exhaustion of cutch in Lower Burma is, as you justly observe, be coming a serious matter. The Government of India have long foreseen that the supply of cutch would be exhausted in the near future, and for the past 18 or 20 years, in reviewing the Forest Administration Reports of Burma, the desirability of taking adequate measures to ensure the permanence of the industry has been constantly pressed on the Local Administration. It is not evident to the Government of India what measures can be taken now, which could not have been adopted with greater benefit years ago; nor is it sufficiently known whether an excessive regard for local prejudices or inconveniences may not have led to a restricted reservation of cutch-producing areas in districts where the people were perhaps little less dependent on the industry than on cultivation. Recuperative measures may now be difficult; but the Government of India have full confidence that you will take such steps as may be practicable to ensure a continuous supply in the future, and, by conserving to the utmost the resources of Upper Burma, which are known to be of considerable value, make up as far as possible for the deficiency which has been allowed to occur in the Lower Province.

12. Financially, the results of the year were the best on record, both the gross and net revenue exceeding by a large sum that of any previous year. The actual results were :—

Year.	Receipts.	Charges.	Surplus.	Proportion of Surplus to gross Receipts.
	Rs.	Rs.	Rs.	Per cent.
Pegu	24,01,158	9,05,272	14,95,886	62
Tenasserim	7,33,558	3,73,311	3,60,247	49
Total in 1889-90 ...	31,34,716	12,78,583	18,56,133	59
Total in 1888-89 ...	26,09,305	11,80,722	14,28,583	55
Increase in 1889-90 ...	5,25,411	97,861	4,27,550	4

And they may be further tabulated as follows :—

Circle.	Departmental timber operations.			Other Revenue.			Formation, &c of Forests	Total.		
	Receipts.	Charges.	Surplus.	Receipts.	Charges	Surplus.	Charges	Receipts	Charges.	Surplus.
	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Rs.	Rs	Rs.
Pegu	17,34,072	6,77,218	10,56,854	6,67,086	76,203	5,90,883	1,51,851	24,01,158	9,05,272	14,95,886
Tenasserim	4,45,891	2,40,918	2,04,973	2,87,667	92,509	1,95,158	39,884	7,33,558	3,73,311	3,60,247
Total in 1889-90 ...	21,79,963	9,18,136	12,61,827	9,54,753	1,68,712	7,86,041	1,91,735	31,34,716	12,78,583	18,56,133
Total in 1888 89 ...	20,42,696	8,48,544	11,94,152	5,66,609	1,63,029	4,03,580	1,69,149	26,09,305	11,80,722	14,28,583
Increase in 1889-90 ...	1,37,267	69,592	67,675	3,88,144	5,683	3,82,461	22,586	5,25,411	97,861	4,27,550

These results, by which a net revenue was realized more than 4¼ lakhs in excess of that of the previous year, are explained by the additional yield of the forests and the brisk demand (at good prices) which prevailed for teak during the greater part of the year. But it is now so fully established that the forests of Burma can be made to yield so much larger a return for the labour devoted to their protection and improvement than any other of the Indian forests that it is desirable to employ as large a percentage of the surplus as can reasonably be made available in bringing under a sound organization of those forests which have not yet been surveyed or for which working-plans have not been prepared.

13. The teak trade of Burma, measured by the imports and exports, shows on the whole considerable expansion, and, so far, the competition from other sources cannot be said to have affected it injuriously. The following statement compares the imports with those of the preceding year, which in turn exceeded those of the year previous :—

Year.	Pegu Circle.	Tenasserim Circle.	Total.
	Tons.	Tons.	Tons.
1889-90	125,332	98,897	224,229
1888-89	75,223	135,755	210,978
Increase or decrease in 1889-90 ...	+ 50,109	— 36,858	+ 13,251

Exports for the past four years are compared in paragraph 13 of your Resolution, from which it is noticed that there has been an increase during that period of some 40,000 tons, while the average value per ton has risen from Rs. 67·7 to Rs. 82·4. The exports from Moulmein, 80,871 tons, were 22,308 tons below the average of the past 10 years, but the value at which they are apprised exceeds that of many previous years. It is observed, moreover, that the timber which passed Kado in the two last years averaged for each year 96,000 tons, whereas the average for the past 10 years has been 138,941 tons. The Government of India, on the information before them, would be disposed to think that the very marked expansion of the Rangoon timber trade, as exhibited by the heavy increase in both imports and exports, may have been sufficient to account for the decline on the Moulmein side.

14. The experiments with exotics were continued. In the Pegu Circle, Mahogany is not found to flourish far from the sea-coast. The *Ceara* rubber, after attaining a certain height, is attacked by white ants, as it was in Tenasserim.

The *Hevea Brasiliensis* continues to thrive at Mergui, and specimens of Para rubber, obtained in 1888 from the larger trees, were valued at *2s. 3d.* per pound. The other rubber-producing species experimented with have not succeeded. The *arnotto*, of which several baskets were produced, is the product of *Bixa Orellana* and appears to be of little value. Tea, coffee, pepper, and vanilla all grow readily at Mergui, but it seems doubtful whether the pods of the last named plant will ripen.

15. The Report under review is a record of progress that has hitherto been unprecedented, as will be seen from the following recapitulation :—

(i) The area protected from fire was greater, while the cost per acre was less, than in any previous year.

(ii) A larger extent of Taungya plantations was successfully stocked.

(iii) Improvement fellings were carried out over the largest area on record.

(iv) The outturn in timber, bamboos, and minor produce exceeded, under all heads, that of any former year.

(v) The revenue of the year, both gross and net, was the highest yet obtained.

The Government of India, while cognisant that the results were to a great extent due to many favourable circumstances, desire to thank you for the successful administration by which the prevailing conditions were turned to the best advantage. They also appreciate the support which you acknowledge to have received from your Forest Officers, who in the Pegu Circle had to contend with a specially malarious season while carrying on the more arduous work of an exceptionally successful year's business. The special thanks which you consider due to Mr. Popert, Conservator of the Pegu Circle, appear to have been well merited.

Discrepancies noticed in the Lower Burma Forest Administration Report for 1889-90.

Paragraph 56 of Tenasserim Report.—Under "Balance on 31st March 1890," instead of there being a balance of 201 logs against "Teak," the figures given show a *deficit* of 136 logs. The balance of tons against "Drift Teak" should be 2,695, instead of 2,685; of logs against "Woods of other kinds," 726 instead of 725; and of tons against "Drift of other kinds," 32 instead of 42. Under "Sales and Disposals during the year," the number of tons against "Scantling, sleepers, &c.," should be 113, instead of 13.

Paragraph 77 of Tenasserim Report.—The "Expenditure" entered against the different Divisions does not agree with that given either in Form No. 58 or in Appendix G.

Paragraph 78 of Tenasserim Report.—The "Receipts" of 1889-90 entered against headings I and II are not the same as those shown in Form No. 62.

Paragraphs 46, 47, 51, 52 and 53 of Pegu Report.—The figures given in these paragraphs are not traceable from Forms Nos. 54, 56, and 56A.

Paragraph 54 of Pegu Report.—The "Total Revenue" entered is Rs. 95,604, whereas according to Form No. 55 it should be Rs. 96,602.

Paragraph 57 of Pegu Report.—The number of Bamboos shown against "Purchasers" should be 2,164,025, instead of 2,165,025; and against "Right-holders," 57,485 instead of 57,480. The "Total" should accordingly be 2,221,510, instead of 2,222,505.

Paragraph 58 of Pegu Report.—"Logs" instead of "Rs." should have been the sub-heading. The entries under "Collected during 1889-90," "Sold or transferred to Government," "Transferred to other depôts," and "Balance" are not borne out by the figures in Forms Nos. 56 and 56A.

Paragraph 60 of Pegu Report.—The value of the 11,840 logs in hand on 1st April 1889 is given as Rs. 59,200, whereas in Form No. 57 it is shown as Rs. 41,400.

Paragraph 61 of Pegu Report.—27,179 logs are entered against Teak under "Sales and Disposals during the year," whereas Forms Nos. 56 and 56A show the number to be 25,759.

Form No. 49.—The more correct equivalent of the 2,140,723 acres of Reserved Forests in the Pegu Circle free of taungya privileges is 3,345—instead of 3,344—square miles. Consequently the total area of the Reserved Forests in that Circle is 3,763, and not 3,762, square miles.

Form No. 52.—The 300 acres deducted, in view of rectification, from the area of Taungya Plantations in the Tenasserim Circle on 1st April 1889 should have been entered in the column "Excluded during the year," the original area of 4,678 acres remaining in the column "On 1st April 1889."

Form No. 56.—The totals of the figures under "Opening Balance" and "Receipts" on the Credit side, and under "Disposals" and "Closing Balance" on the Debit side, should be separately given.

Form No. 59A.—The "Expenditure as per Annual Summary (Form No. 58)" is entered as Rs. 3,73,312-1-2 under the Tenasserim Circle and Rs. 9,05,272-9-11 under the Pegu Circle, whereas according to Form No. 58 itself the figures should be Rs. 3,73,311 and Rs. 9,05,272 respectively. Consequently the "Total" of the entries should be Rs. 12,78,583, instead of Rs. 12,78,584-11-1.

Form No. 62.—The total Charges of the Tenasserim Circle should, according to Form No. 58, be Rs. 3,73,311 instead of Rs. 3,73,312, and of the Pegu Circle Rs. 9,05,272 instead of Rs. 9,05,273; the Grand Total for the Province being, consequently, Rs. 12,78,583, instead of Rs. 12,78,585.

[W. F. C.]

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TENASSERIM CIRCLE

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RESOLUTION

ON THE

FOREST ADMINISTRATION REPORT

OF

LOWER BURMA

For the year 1889-90.

Extract from the Proceedings of the Chief Commissioner, Burma, in the Forest Department,—No. 65M., dated the 14th August 1890.

READ—

Reports of Conservators on the administration of the forests of the Tenasserim and Pegu circles for the year 1889-90.

RESOLUTION.—The reports of both circles were submitted with commendable punctuality. The Tenasserim report was received on the 24th and the Pegu report on the 27th June, the prescribed date being the 1st July.

GENERAL RESULTS.

2. The general results of the operations of the Forest Department in Lower Burma during the past year were as follows. An addition of 462 square miles was made to the area of reserved forests, which now amounts to 5,573 square miles. In 430 square miles of the reserved area the privilege of cultivating taungyas has been granted subject to certain reservations. Fire-protection was successful over an area of 239,361 acres, or 45,526 acres more than in 1888-89. An addition of 3,787 acres was made to the area of taungya teak plantations, which now consist of 19,606 acres. The number of teak trees girdled was 19,433 against 15,319 in 1888-89. The quantity of teak extracted from the forests was 79,465 tons, or 23,490 tons more than in that year. The gross forest revenue of the two circles for the year was Rs. 31,34,716 and the expenditure Rs. 12,78,583 compared with Rs. 26,09,305 and Rs. 11,80,722 in 1888-89. Survey charges, of which the exact amount has not yet been ascertained, are excluded from the figures for 1889-90.

RESERVATION OF FORESTS.

3. In the Tenasserim circle the reservation of an area of 18 square miles was sanctioned, but its final demarcation was not completed before the close of the year. Preliminary steps were taken for reserving five padauk-yielding tracts in the Amherst district, comprising in all about 52 square miles. The total area of reserved forests in the circle is shown by the Conservator as 1,811 square miles. The area of reserved forests in the Pegu circle at the close of 1888-89 was estimated at 3,318 square miles. In accordance with the results of the surveys which have been carried out this area is now shown as 3,331 square miles. The addition during the year under review of three reserves, namely, two in the

Shwegyin and one in the Toungoo division, containing an area of 431 square miles, has raised the aggregate area of the reserves in this circle to 3,762 square miles.

Cutch reserves.

4. The proposed village cutch reserves in the Thayetmyo district, to which allusion was made in the Chief Commissioner's review of the Lower Burma Forest Reports for 1888-89, have now been formed. They were notified as village forests at the close of March 1890. They consist of 16 tracts, containing an area of about 8,805 acres, and rules for their control and management have been published under section 33 of the Burma Forest Act, 1881. The special attention of the District Officers has been drawn to the necessity of carefully watching the working of this experiment and of doing all in their power to ensure it a fair prospect of success. The exhaustion of cutch in Lower Burma is becoming a serious matter and it is doubtful whether the steps which have been taken are sufficient to ensure the provision of a sufficient supply for future years. The subject will receive the Chief Commissioner's attention in consultation with the Conservators and such further steps as may be possible will be taken for this purpose. In the year 1888-89 measures were taken to prevent the adulteration of cutch by the product of a tree called *than*. It has since been represented that extracts from other trees are used for a similar purpose. The question of the best method of preventing the use of these alleged adulterants is now under consideration.

Forest surveys.

5. The Topographical Survey party continued its work in the Prome, Thayetmyo, and Toungoo districts. The surveyors were not molested by dacoits, but the work was much impeded by the illness of nearly all the men of the party owing to the malarious character of the locality in which they worked in the Toungoo district. About 171 square miles of detail survey on the 4-inch scale inside reserves and 240 square miles of traverse survey were executed. Of the detail survey 29½ square miles comprised Karen areas. Nearly the whole of the traverse survey work carried out was done within the Toungoo district. The 4-inch detail survey is now finished in Prome, but some work in unreserved forests on the 2-inch scale remains to be done in that district. In the Thayetmyo district detail survey of only about 8 square miles has yet been done.

It has been proposed that regular forest surveys should be begun in the Tenasserim circle next season. The matter is still under consideration in communication with the Superintendent of Forest Surveys. The difficulty hitherto experienced has been that of providing an officer of the controlling staff of the Forest Department to supervise the work. Sanction having recently been accorded to the addition of two Sub-Assistant Conservators to the staff of the Tenasserim circle, it is probable that arrangements for carrying out the Superintendent's suggestions can now be made.

WORKING PLANS.

Working plans.

6. The working plan of the Bawbin-Minbu working circle, to which allusion is made in paragraph 13 of the Pegu report, did not reach the Chief Commissioner until some time after the close of the year. The plan has been approved by the Inspector-General of Forests, and sanctioned by the Chief Commissioner, but final orders have not yet been issued pending the correction of certain inaccu-

racies brought to notice by the Inspector-General. Progress was also made in the preparation of a working plan of the Taungnyo forests in the Tharrawaddy district. Besides the rough working plan prepared some years ago for the East and West Salween forests, which continues to be followed, no working plans have been prepared in the Tenasserim circle. With reference to paragraph 5 of the orders of the Government of India in the Lower Burma Forest Report for 1888-89, the Conservator states that all his Divisional Officers submitted for 1889-90 the annual plan of operations prescribed by paragraph 62 of the Forest Code.

Offences against Forest Rules.

Forest offences.

7. In the Tenasserim circle 188 cases of theft of timber or forest produce, or of breaches of the Forest Act and Rules, were brought to trial. In 180 of these cases convictions were obtained. These figures do not materially differ from those of the previous year. One hundred and twenty-four cases of offences against the forest law were compounded. In the Pegu circle 148 cases were disposed of, implicating 260 persons, of whom 225 were convicted, as compared with 170 cases in 1888-89 affecting 256 persons, of whom 216 were convicted. The number of cases compounded was unusually large, especially in the Pegu circle, and the amount of compensation received, Rs. 14,566-8-2, was much more than in the preceding year. The Chief Commissioner approves the action of the Conservator in taking action against persons allowed to cultivate taungyas in reserves who wilfully or negligently destroy teak trees in the course of their taungya-burning.

Fire-protection.

Fire-protection.

8. The measures taken during the year to protect reserved forests from fire were unusually successful, a result which is ascribed in some measure to the favourable nature of the season. The following table shows the result of these measures during the past two years :—

Circle.	Area in square miles.			Proportion of failures to area attempted.	Cost.		Proportion of area actually protected to total area of reserves (excluding taungyas).
	Attempted.	Failures.	Protected.		Per square mile protected.	Per acre protected.	
				Per cent.	Rs. A. P.	Rs. A. P.	Per cent.
Pegu	249	5	244	1·96	57 5 10	0 1 5	7·28
Tenasserim ...	130	...	130	·08	40 13 8	0 1 0	7·25
Total in 1889-90 ...	379	5	374	1·29	51 10 0	0 1 3	7·27
Total in 1888-89 ...	342	39	303	11·47	56 13 0	0 1 5	6·45
Increase or decrease in 1889-90.	+37	—34	+71	—10·18	—5 3 0	—0 0 2	+·82

In Tenasserim the results were especially satisfactory, only 25 acres having suffered out of 83,520 acres, of which the protection from fire was attempted. In the Pegu circle also there was a marked decrease in the area in which fires occurred. Out of 158,980 acres, the protection of which was attempted, only 3,114 acres suffered from fire. In Tenasserim the entire outlay on fire-protection for the year was Rs. 5,311, or about 1 anna an acre on the area protected. In Pegu the outlay amounted to Rs. 13,997, or 1 anna 5 pies per acre on the area protected. The Tharrawaddy reserves suffered most, some of the fires being the work of incendiaries, and one reserve having been mischievously fired no less than five times. The Conservator is asked to consider whether he cannot before next dry season devise special fire-protection measures in this division. The area of plantations over which fires spread was 461 acres. The damage done to plantations in both circles by the fires of the previous year does not appear to have resulted in permanent injury to the serious extent expected. Apparently, if further fires are prevented, a great deal of the mischief caused by the extensive fires of 1888-89 will have been repaired within the next two or three years.

Reproduction and Improvement of Forest Growth.

Regular plantations.

9. No additions were made to the regular teak plantations in the Tenasserim circle, which only amount to 23 acres. In the Pegu circle the Kyetpyugan and Magayi plantations were extended by 3 and 27 acres respectively at an average cost of Rs. 14-12-5 per acre, the area of the teak plantations of the circle being thereby raised to a total area of 3,875 acres.

Teak taungya cultivation.

An addition of 1,256 acres was made during the year to the taungya teak plantations of the Tenasserim circle. Of this 1,170 acres are well stocked. The taungya plantations of the circle now amount to 5,626 acres under teak and 8 acres under other timber. In the Pegu circle 2,316 acres were successfully planted up with teak on the taungya system at a cost of Rs. 11-4-0 per acre. The taungya teak areas of the circle now aggregate 12,315 acres of teak and 1,615 acres of teak and cutch intermingled. The cost, including maintenance to date, has averaged Rs. 14-14-3 per acre against Rs. 7-7-10 in Tenasserim; but, as explained in the Chief Commissioner's review of the Report for 1888-89, the average number of seedlings per acre reared in Pegu is much above the average in Tenasserim. It is, however, clear that weeding is not attended to with uniform care in the Tenasserim circle and this may to some extent account for the low average cost.

Girdling Operations.

Girdling.

10. In the Tenasserim circle 713 teak trees were girdled in four reserves of the East Salween division. In the Pegu circle 8,831 teak trees were girdled inside and 9,889 trees outside reserves out of proposed girdlings of 11,250 trees and 8,050 trees respectively.

Timber worked out of the Forests.

Outturn of the forests.

11. The following table shows the quantity of timber of all kinds extracted from the forests during the year:—

	Teak.	Other kinds.	Total.
	Tons.	Tons.	Tons.
By Government agency	62,668	3,188	65,851
By purchasers and under trade permits	15,005	129,380	144,385
Under free permits	66	240	306
By leaseholders of forests	1,731	600	2,331
Total ...	79,465	133,408	212,873
Total for 1888-89 ...	55,975	118,771	174,746
Increase or decrease in 1889-90 ...	+23,490	+14,637	+38,127

The quantity of teak worked out in the Tenasserim circle was 14,982 tons, or 2,181 tons more than in the previous year. The size of the teak was smaller than in the year 1888-89. The quantity of other sorts of timber worked out was 6,997 tons of reserved and 22,020 tons of unreserved kinds, or 2,370 tons and 3,083 tons respectively more than in 1888-89. In the Pegu circle 64,483 tons of teak were worked out as compared with 43,174 tons in 1888-89. The season was favourable for floating work and much less timber was neaped than in the previous season. Arrangements were made for working certain forests in the Toungoo division on the contract system in force in Upper Burma, and as a result the quantity of teak extracted by purchasers from the Toungoo forests exceeded the quantity in the previous year by 13,560 tons. Of other reserved woods only 1,807 tons were worked out compared with 4,144 tons in the year 1888-89, no pyinma timber having been extracted, while of unreserved kinds the quantity worked out by purchasers rose from 90,852 tons to 102,270 tons. The outturn of cutch from reserves was much larger than in the previous year, but there was a serious falling off in the extraction of cutch from unreserved forests.

REVENUE AND EXPENDITURE.

Financial results.

12. The gross forest revenue of Lower Burma for the year amounted to Rs. 31,34,716, the highest figure it has ever reached, compared with Rs. 26,09,305 in 1888-89, as shown in the following statement:—

		1888-89.	1889-90.	Increase or decrease.
		Rs.	Rs.	Rs.
From timber and other produce removed from the forests by Government agency.		19,87,990	21,18,603	+ 1,30,613
From timber and other produce removed from the forests by cobsumers or purchasers.	Timber	2,33,967	5,08,521	+ 2,74,554
	Firewood and charcoal ..	18,862	24,848	+ 5,986
	Bamboos ...	4,974	5,424	+ 450
	Grazing and fodder grass	223	219	— 4
	Other minor produce ...	1,51,070	1,59,402	+ 8,332
Confiscated drift and waif wood		1,34,537	1,27,663	— 6,874
Duty on foreign timber and forest produce		41,252	1,39,014	+ 97,762
Miscellaneous		36,430	51,022	+ 14,592
Total .		26,09,305	31,34,716	+ 5,25,411

Owing to a fall in the price of teak at Moulmein and to the non-completion of sundry sleeper contracts before the close of the year the revenue of the Tenasserim circle from timber worked out by Government was less by Rs. 35,859 than in 1888-89, but sales of timber and minor produce to purchasers in the forests realized Rs. 6,527 more, while the duty levied at Kado, of which the rate was raised at the beginning of the year, amounted to Rs. 97,762 more than in the preceding year. Representations have been made that the enhancement of the rate of duty levied at Kado on foreign timber has seriously affected the Moulmein timber trade. It may be doubted whether other causes have not been mainly responsible for the decline, which it is hoped is merely temporary, of the Moulmein trade. It is certain that there was a fall in the price of teak in the home market and that Bangkok is now a formidable competitor in the teak export trade. The whole subject engages the Chief Commissioner's attention and due regard will be paid to the interests of the timber traders so far as is compatible with the public interests which have to be safe-guarded. In Pegu the increase of Rs. 4,61,675 in the gross revenue over that of 1888-89 was in a great measure due to the activity of the contractors for the working of the Toungoo forests. The total expenditure of the year in both circles was Rs. 12,78,583. In Tenasserim it was almost identical with that of 1888-89. The net surplus in that circle was Rs. 3,60,247, or Rs. 64,954 more than the surplus in 1888-89. The total expenditure in the Pegu circle was Rs. 9,05,272, or Rs. 99,079 more than in that year. The increase is not more than proportionate to the increase of the revenue and calls for no special remark. The net surplus of the circle was Rs. 14,95,886. The surplus of the two circles for the year, namely, Rs. 18,56,133, is Rs. 4,06,133 in excess of the revised estimate sanctioned by the Government of India. As already noted, the cost of surveys has not been included in these figures.

Imports and Exports of Teak.

Imports and exports of teak.

13. The quantity of teak imported by the river Salween into Moulmein (Kado revenue station) during the year was 98,897 tons, or 36,858 tons less than in 1888-89, when, however, the quantity was 31,072 tons more than in 1887-88. The estimated imports of teak into Lower Burma by the rivers Irrawaddy and Sittang were 125,332 tons, or 50,109 tons more than in 1888-89.

The quantity of teak exported from Moulmein and Rangoon was as follows:

Year.	From Moulmein.		From Rangoon.		Total.		
	Tons.	Value.	Tons.	Value.	Tons.	Value.	Average value per ton.
		Rs.		Rs.		Rs.	Rs.
1886-87 ...	96,600	62,84,972	46,784	34,66,561	143,384	97,01,533	67·7
1887-88 ...	116,507	79,54,812	52,417	36,99,610	168,924	1,16,54,422	69·0
1888-89 ...	98,465	77,21,819	62,969	48,99,547	156,434	1,26,21,366	80·7
1889-90 ...	80,871	70,05,857	103,560	81,84,843	184,431	1,51,90,700	82·4

The causes of the decrease in the exports from Moulmein have been noticed in the preceding paragraph. Exports of teak from Rangoon rose from 62,969 tons

to 103,560 tons, most of which went to England and Bombay. These shipments were in excess of requirements and, as the year advanced, prices in the home market fell seriously. Prices also declined in the Indian markets towards the end of the year.

Services of officers.

14. The Chief Commissioner has much pleasure in recording his appreciation of the successful administration of the Forest Department during the year under review. His thanks are specially due to Mr. E. P. Popert, Conservator of the Pegu Circle, who since the close of the year has been compelled by ill-health to take furlough. The good work done by Deputy Conservators and Assistant Conservators, as well as by subordinate officers of the Forest Department, many of whom have had to contend with unusual difficulties caused by the nature of the season and of the climate, has been remarked by the Chief Commissioner with much satisfaction.

By order of the Chief Commissioner,

H. THIRKELL WHITE,

Officiating Chief Secretary.

ERRATA

Page 16 (Pegu circle), line 7, paragraph 67, *for* "Rs. 7,899" *read* "Rs. 7,110."

Page ix, Form No. 51, column 4, *for* "6*" *read* "76*."

Page xix, Form No. 55, column 2, omit "II.—Protected Forests."

Page xx, Form No. 55, column 2, *for* "II.—Protected Forests—concluded" *read* "I.—Reserved Forests—concluded."

Page xxii, Form No. 56 (Pegu circle), in column 9, *for* "89,750" and "41,902" *read* "25,849" and "89,750" respectively, and in column 10, *for* "873,632" and "970,928" *read* "1,230,608" and "873,632" respectively.

Page xxviii, Form 58, column 6, *for* "3,969" *read* "3,699"

REPORT

ON

FOREST ADMINISTRATION

IN

THE TENASSERIM CIRCLE

For the year 1889-90,

BY

MAJOR C. T. BINGHAM, OFFG. CONSERVATOR OF FORESTS.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

No increase to reserved forests.

1. By the addition of the Kyakatchaung reserve the area of reserved forests has been increased to 1,811 square miles.

2. The Kyakatchaung reserve, of 18 square miles, in the Shwegyin district, was sanctioned in Notification No. 89 (Forests), dated the 4th July 1889; but, owing to difficulties and delays arising from the scarcity of water for the camp of the Demarcating Officer, its final demarcation was not completed by the close of the year.

Further action also with reference to the proposed reservation of the five padauk tracts in the Haungtharaw valley was pending at the close of the year.

2.—Boundaries.

Inspection of boundaries and repairs.

3. Boundary marks round reserves are reported generally in good order.

In the Attaran and West Salween divisions no renewal of boards was found necessary.

In the East Salween division 12 more boundary pillars were erected and a few missing boards replaced at a cost of Rs. 25-6-6.

In the South Tenasserim division the renewal of missing boundary boards round the various reserves cost Rs. 34-8-6.

CHAPTER II.

SURVEYS, WORKING PLANS, AND ANNUAL PLANS OF OPERATIONS.

1.—Surveys and Exploration of Forests.

Preliminary demarcation of the outlying teak tracts in the Attaran valley.

4. Mr. Ferrars was engaged during a part of the working season on the preliminary demarcation of the outlying teak tracts in the Attaran valley. The work, though completed, with one trifling exception, by the end of the working season, was not concluded, nor was the report submitted by the end of the year.

Examination of Mergui kanyin forests.

5. In the South Tenasserim division Mr. Ingram completed the inspection and demarcation of the principal kanyin tracts in the Mergui district, submitting a detailed report with proposals for selling the working of the tracts by auction to the highest bidder.

2.—*Working Plans.*

Existing working plans adhered to..

6. The provisions of the rough working plans for the East and West Salween divisions have been adhered to as far as possible.

No new working plans were drawn up nor were any valuation surveys undertaken.

3.—*Annual Plans of Operations.*

Annual plans of operations.

7. All Divisional Officers submitted plans of operations which have been generally worked up to.

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—*Establishment.*

Charge of the West Salween division.

8. From the 1st April 1889 Mr. M. H. Ferrars, Deputy Conservator of Forests, has had charge of the West Salween division, in addition to the charge of the Attaran and Agency division. Practically, however, the former division has been in charge of Forest Ranger Maung Shwe Ka under Mr. Ferrars' supervision. Maung Shwe Ka was promoted to Sub-Assistant Conservator of Forests, on probation, on the 1st February 1890.

Changes in the scale of establishment.

9. In the permanent subordinate forest establishment an exchange was effected with the Pegu circle of a Forest Ranger, 2nd grade, for a Forest Ranger, 1st grade.

The distribution and cost of the permanent and temporary establishments is shown below.

Division.	1888-89.		1889-90.			
	Cost of permanent establishment.	Cost of temporary establishment.	Sanctioned permanent establishment.	Sanctioned temporary establishment.	Actual cost of permanent establishment.	Actual cost of temporary establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Attaran and Agency ...	10,183	1,519	11,865	2,244	10,459	2,150
East Salween ...	3,658	495	4,458	648	3,121	322
West Salween ...	2,466	338	2,718	648	2,271	308
Kado	12,854	10,118	13,533	11,364	13,461	11,327
South Tenasserim ...	4,490	240	4,668	240	4,188	240
Total ...	33,601	12,710	37,242	15,144	33,500	14,347

2.—*General Protection and Breaches of Forest Laws.*

Prosecutions for breaches of forest law.

10. In the East Salween division one man was found making a clearing within the boundaries of the South Myawadi reserve. The case was compounded by his collecting 10 baskets of teak seed and planting the area cleared with teak.

The following table shows the number of cases and persons implicated in breach of forest rules and theft of timber in transit prosecuted before Magistrates and before the Deputy Conservator of Forests, Kado Division, acting in his capacity as Magistrate:—

Division.	Cases tried before Magistrates.		Convictions.	Reversed on appeal.	Cases tried before the Deputy Conservator of Forests, Kado Division.		Remarks.
	Number of cases.	Number of persons implicated.			Number of cases.	Number of persons implicated.	
Attaran and Agency	8	8	8	...	...	...	Convictions were obtained in all the 178 cases, but on appeal one case was entirely and two partially reversed.
East Salween	1	1	1	...	...	...	
Kado	5	6	3	2	178	214	
South Tenasserim	1	2	1	...	...	...	
Total ...	15	17	8	2	178	214	

In the five more important cases, all of which were for thefts of timber, the prosecutions were conducted before the Moulmein Town Magistrate, but, owing to the difficulties in the matter of collecting evidence and the intricacies of the cases, with unsatisfactory results as regards convictions. Of the three cases in which convictions were obtained two were reversed on appeal, and the judgment and sentence in the remaining one only partially upheld.

Cases compounded by Divisional Officers under section 66.

11. One hundred and twenty-four cases, involving 235 persons, were dealt with by Divisional Officers under section 66 of the Forest Act, Rs. 5,998 being accepted as compensation. The amount paid to informers under Rule 44 was Rs. 606-4-0.

3.—*Fire-protection.*

General results of fire-protection.

12. Fire-protection has been eminently successful in all divisions this year. Out of a total of 83,520 acres attempted to be protected only 25 acres were burnt.

The cost amounted to Rs. 5,311, or a fraction over 1 anna per acre actually protected.

In previous years the area, protection of which was attempted, was by a mistake put down at 79,116 acres; the correct figure was 75,836 acres, of which 73,318 acres as shown were successfully protected at a cost of 1 anna 1 pie per acre.

Fire-protection in the Attaran division.

13. In the Attaran division no fires occurred, the total area successfully protected being 9,572 acres, and the cost of protection a little over 1 anna 2 pies per acre.

It has to be noted here that in re-writing the register of the Kyunchaung reserve the Divisional Officer found that an area of 3,280 acres lying west of the main road, which has never been fire-traced, had erroneously been included in the protected area since 1880. The figure of the protected area in this reserve has consequently been corrected from 10,880 acres to 7,600 acres.

Fire-protection in the East Salween division.

14. In the East Salween division 7,680 acres of the Methawè reserve, lying contiguous to the West Mepalè reserve (25,600 acres), were added to the fire-traced area and the whole block of 33,280 acres successfully protected at a total cost of Rs. 1,899, or a little more than 10 pies per acre.

Fire-protection in the West Salween division.

15. In the Ônkangyi reserve of the West Salween division 25 acres of protected area, comprising 15 acres of plantations and 10 acres of forests, were burnt. The damage done, however, is reported to be slight. The origin of the fire could not be traced; but, as noted in last year's annual report, the Ônkangyi and Bilakatgyi

reserves "are protected by local Karens at a very trifling cost, and it is impossible to exercise much supervision over them."

The total area successfully protected in the division comprised 40,643 acres and the cost of protection amounted to Rs. 2,677, or a trifle over 1 anna per acre.

16. The area of plantations and forests burnt over compared with last year is given below.

Division.	Reserve.	Area fire-traced in acres.		Area over which fire spread.			
		1888-89.	1889-90.	1888-89.	1889-90.		
				Total.	Total.	Of forests.	Of plantations.
West Salween	Mèwaing	7,360	7,360	45	...	...	...
	Sinawè	8,960	8,960	...	...	...	...
	Kahilu	2,560	2,560	...	...	...	...
	Ônkangyi	6,300	6,300	20	25	10	15
	Bilakatgyi	6,656	6,656	3,368	...	...	...
	Tàgèlaung	3,072	3,072	55	...	...	...
	Wamu	1,920	1,920	...	...	...	...
	Mènanwè	3,840	3,840	...	...	...	...
East Salween	West Mèpalè ...	25,600	25,600	...	...	...	...
	West Methawè ...	...	7,680	...	...	...	...
Attaran	Kyunchaung ...	7,600*	7,600	500	...	...	...
	Dali	151	151	10	...	...	...
	Natchaung	1,800	1,800	1,800	...	...	...
	Gôngyi	17	17	...	...	...	...
	Thinganyinaung ...	...	4	...	...	...	...
	Total ...	75,886	83,520	5,798	25	10	15

* Erroneously shown in annual report since 1880 as 10,880 acres.

Inspection of plantations burnt in 1889.

17. The 40 acres of plantations burnt last year have all been inspected. The actual damage done to the plants is reported to be trifling.

Fire-record maps.

18. As explained in the annual report for last year fire-record tracings in the manner prescribed in Inspector-General of Forests' Circular No. 5, dated the 14th July 1887, can be and have only been kept up for the West Mèpalè reserve, only the roughest sketch maps quite useless for this purpose existing for the other fire-traced reserves.

Unburnt areas not specially protected.

19. In addition to the specially protected areas, the Yè reserve, of 202,880 acres in the Attaran division, and the Kalinaung, Mintha and Ngawun reserves, aggregating a total of 550,400 acres in the South Tenasserim division, are all reported to have escaped fire.

4.—*Grazing.*

Grazing.

20. The right of grazing elephants in the Metkanè reserve, East Salween division, which has been exercised in a desultory fashion during the past year, is the only grazing right existing in any of the reserves of the circle.

5.—*Natural Reproduction.*

Natural reproduction of teak.

21. With reference to the Attaran and West Salween divisions the remarks under this head in last year's annual report hold good. In the West Mèpalè reserve of the East Salween division, owing to the fire-protective measures of the last few years, natural reproduction is reported to be progressing, hindered, however, this year by

a plague of small caterpillars, which have attacked the whole of the teak-producing localities in the Thaungyin and to a certain extent also in the Salween valley. The caterpillar is apparently the larva of a small moth belonging to the *Tineidæ* or leaf miners. Burrowing between the upper and lower cuticles of the leaves it destroyed them so completely, and so injured the trees on the whole, that in the majority of cases large areas of seed-bearing trees either failed to produce seed at all or aborted their seed prematurely. With reference to the natural reproduction of teak in localities unprotected from fire a closer examination of the third class growth and seedlings shows that the remarks in last year's annual report must be considerably modified. It has been found that reproduction is excessively slow, trees 6 to 10 inches in diameter proved to be from 30 to 50 years old, while the majority of what appeared to be seedlings were really a one or two years' growth from root stumps seven or eight years old There is little doubt that fire is the chief repressive factor in keeping down the natural reproduction of teak.

Natural reproduction of valuable timber other than teak.

22. In the Attaran division the natural reproduction of valuable but unreserved woods has been reported on by Mr. Ferrars, who notes that kanyin here is more or less sporadic, adhering to the soles of valleys and not growing, as in the Andamans and in the Mergui archipelago, over well-defined tracts. It reproduces very slowly and, as the mature stock is rapidly being exhausted, it may be necessary to make this tree a reserved species as it is in the Pegu circle.

Pyinkado and In according to Mr. Ferrars's report still exist in considerable quantities over extended areas and reproduce freely. The latter, however, is being slowly replaced in certain localities by thayin (*Croton oblongifolius*), an inferior wood, fit only for fuel.

6.—*Artificial Reproduction.*

Teak taungyas. General results.

23. The area planted by teak taungya cultivators amounts to 1,256·4 acres, or 402·4 acres in excess of the area planted last year. The results are on the whole satisfactory, showing 1,170·4 acres well stocked with over 400 plants per acre, while 86 acres are indifferently stocked and total failure is recorded against 6 acres only. The details are as below.

Division.	Reserve.	Estimated area planted up in acres.	Number of plants raised per acre	Total cost.	Average cost per acre.	Remarks.
				Rs. A. P.	Rs. A. P.	
West Salween	Mèwaing ...	301	552	1,783 0 0	5 14 9	In the West Mèpalè reserve the estimated area includes 29·1 acres of punitive yas, for which no expenditure beyond that for teak seed was incurred.
	Sinswè ...	258	561	1,615 0 0	6 6 1	
	Kahilu ...	68	487	404 0 0	5 15 0	
	Ônkangyi ...	113	458	529 0 0	4 10 10	
	Bilakatgyi ...	40	920	106 0 0	2 10 4	
	Tagèlaung ...	105	466	468 0 0	4 7 8	
	Total ...	880	512	4,905 0 0	5 9 2	
East Salween ...	West Mèpalè ...	229·4	698	1,454 10 0	6 5 5	
Attaran	Dali	41	579	233 0 0	5 10 11	
	Natchaung ...	28	760	194 0 0	8 6 11	
	Gôngyi	17	154	58 0 0	3 6 7	
	Kyunchaung ...	29	862	177 0 0	6 1 7	
	Thinganyinaung	37	868	309 0 0	8 5 7	
	Total ...	147	588	971 0 0	6 9 8	
	GRAND TOTAL ...	1,256·4	554	7,330 10 0	5 13 4	

Teak taungyas in the West Salween division.

24. In the West Salween division taungya teak plantations have been commenced in the Tagèlaung reserve and have been fairly successful.

It was noted in last year's annual report that large areas covered with Wagôk bamboo had flowered and died in the Sinswè-reserve, and that 13 acres in the oldest dead bamboo tract had been cleared by fire and planted up with teak. The experiment has proved a failure owing to a miscomprehension of orders on the part of the Forest Ranger who superintended the work; the teak seed was sown *in situ* instead of healthy plants being put out from nurseries. The young bamboo growing up from the seed shed the previous year got a start of the teak and eventually, notwithstanding rather costly clearings, suppressed it.

Teak taungyas in the East Salween division.

25. In the East Salween division the teak taungyas of the year were on the whole remarkably good.

Teak taungyas in the Attaran division.

26. In the Attaran division the teak taungyas in the Natchaung and Thinganyinaung reserves were successful in all points; the yas in the Gôngyi owing, it is said, to bad seeds were poor; while in the Kyunchaung reserve the sites chosen were without exception unfitted for teak, though probably yielding a heavy rice crop to the cultivators.

The Divisional Officer informs me that the sites chosen by the cultivators for their yas were in entire opposition to the orders he had issued, but which orders the Forest Ranger, who has since resigned the service, failed to see carried out.

7.—*Cutting Creepers, Weeding, and Thinning.*

Weeding teak taungyas

27. In all divisions the usual weedings of taungya plantations have been carried out. The details are given below.

Division.	Reserve.	Year of formation.	Area in acres.	Cost			Cost per acre.			Remarks.
				Rs	A.	P.	Rs.	A.	A.	
West Salween	Mèwaing	1886 1887 1888	11 148 218	448	0	0	1	3	3	
	Sinswè	1886 1887 1888	100 85 127	641	0	0	2	0	10	
	Kaluin	1886 1887 1888	49 56 37	119	0	0	0	13	5	
	Ônkangyi	1886 1887 1888	229 210 110	528	0	0	0	15	3	
	Bilakatgyi	1886 1887 1888	84 155 110	448	0	0	1	3	3	
East Salween ...	West Mepalè	1883 1885 1887 1888	10 27 125 184	682	8	0	2	2	2	The following sums were also disbursed,—Rs. 355 8-0 due, but not disbursed last year; Rs. 90, value of stock of rice on hand for 1890-91 for Kamu coolies.
Attaran	Dali	1886 1887 1888	19 8 43	60	0	0	0	13	9	
	Gôngyi	1888	17	43	0	0	2	8	6	
	Kyunchaung	1886 1887 1888	31 23 25	116	0	0	1	6	7	
	Thinganyinaung	1856 1888	16 4	44	0	0	2	8	2	
	Total ...	...	2,209	3,074	8	0	1	6	3	

28. In the West Salween division the weeding in the Ônkangyi and Bilakatgyi reserves was not carried out till late. This is reported to be due to there not being a sufficient staff of Kamu coolies for the work.

West Salween division. Weeding and stock-taking.

In the Wamu reserve the old plantations were cleared of creepers.

A commencement was made this year in the important work of stock-taking, the plantations from the very beginning being inspected, and the areas on which the teak planted had more or less died out owing to insufficient weeding in past years noted with the following results:—

Total number of plantations up to 1888	745
Total number of plantations examined	629
I.—Number of plantations with 80 per cent. of area stocked ...	226
II.—Number of plantations with 50 per cent. of area stocked ...	280
III.—Number of plantations with 25 per cent. of area stocked ...	27
IV.—Number of plantations which lapsed	126
Not examined up to close of year.	116

The results clearly show the consequence of bad weeding and want of care in past years.

This work of stock-taking will be continued in the West Salween and, if possible, be extended to the other divisions.

29. In the East Salween division the weeding is reported on the whole to have been efficiently done.

Weeding in the East Salween division.

30. In the Attaran division the weeding of the plantations in the Dali, Gôngyi, and Thinganyinaung reserves was well performed. In the Thinganyinaung the plantations of 1856 were cleared of creepers and intruding species of dominant size.

Weeding in the Attaran division.

The weeding in the Kyunchaung reserve was unsatisfactory and utterly insufficient. Here again the Divisional Officer reports that the Ranger acted in direct disobedience of orders issued by him.

8.—*Experiments and Exotics.*

31. Of the seven mahogany seedlings noted as on hand last year five have died, two have been put out in the Forest Office compound, where there are now 14 young trees. These seem to be doing fairly well. Of the 22 trees planted out at Shwegun and three at Duyinzeik on the Dôndami one has been injured by some animal, the rest are thriving.

Mahogany.

32. At the Mergui experimental gardens, South Tenasserim division, one of the *Hevea Braziliensis* died, reducing the number of large trees of this species to 48.

Mergui plantations. Experimental cultivation on the Forest Department side. Para rubber.

The stock at the end of the year was—

Large trees	48
Small trees	7,148
Seedlings in nurseries	12,150

From the large trees 162lbs. of seed were collected and distributed to Mr. Watson, planter, and to the Rev. Mr. Morrow, Missionary at Tavoy. Mr. Watson reports the seed as germinating fairly well.

Distribution of seedlings was also made to the Deputy Conservator of Forests, Bhamo, and of 1,000 to Mr. Watson. The latter are reported to be making good growth.

The specimens of Para rubber obtained from the experimental tappings in 1888 of the larger *Hevea* were sent to the Director, Royal Gardens, Kew, and were returned washed and cured with a most favourable report on the quality. The best kind was valued at 2*s.* 3*d.* per pound.

33. None of these species seem to do well. Four more of the *Castilloa* have died, and the cultivation of *Manihot* seems a failure, its numbers being reduced in the year to 295.

Castilloa elastica. Manihot glaziovii. Ficus macrophylla.

The number of *Ficus macrophylla* has been increased by cuttings to 142 at the end of the year.

Other trees cultivated.

34. The number of mahogany and rain trees remains as in last year at three and 28 respectively. Of other species on hand at the end of the year there were—

Manilla hemp	584
Divi-divi	1,472
Talainsôk	80
Annatto	392
Kyetpaung	280
Kyetmauk	80
Akyaw	45
Taungthangyi	11
Nutmeg	94
Sinkazi	241
Broussonetia papyrifera	15

Of annatto three baskets and 14 pyès were collected and sold for Rs. 7-12-0.

Barbed wire-fencing round garden.

35. A further sum of Rs. 69-12-0 was disbursed on the completion of the barbed wire-fencing round the cultivated portion of the garden.

Expenditure during the year.

36. The total expenditure during the year charged to the Forest Department area amounted to Rs. 1,043-7-5.

Experimental cultivation undertaken with provincial grant.

37. A quarter of an acre of fresh clearing was made and planted up with Liberian coffee, the total area under this now being 1·95 acres.

The number of plants at the beginning and close of the year were as follows:

Beginning of the year	2,615
End of the year	3,372
Increase ...	757

due to 815 transplants, less 58 deaths, being put out. The crop of the year amounted to 164·45 viss, or 5·14 cwt., that is to say, a crop of about 3 cwt. to the acre. Part of the crop, 85¾ viss, was sold by the close of the year at prices ranging from Rs. 1-8-0 to Rs. 2 and realized Rs. 139-4-0.

Arabian coffee.

38. The plants of the Arabian coffee were put down on three-fourths of an acre cleared at the southern end of the plantations, but they are not thriving, probably requiring a higher elevation.

Tea.

39. Of tea the number of plants remained the same, namely, 172. Pickings were taken this year and 1 viss 20 ticals of leaves, which were roughly dried by one of the Chinese coolies on the plantation, sold for Rs. 1-8-0.

The experiment is on too small a scale to be of much practical use.

Other plants cultivated.

40. Of the 20 plants of cocoa on hand since last year eight died, leaving a balance of six large and six small plants. The experiment seems a failure, the pods invariably drying up on the tree before ripening. The cardamom seed received from the Agri-Horticultural Society of Rangoon did not germinate.

The vanilla has flowered profusely, and 144 healthy pods were found on the vines at the end of the year. Efforts will be made to cure these should they mature.

Pepper is succeeding very well and a large number of new cuttings have been put down. The collection of pepper amounted to 1½ viss, which sold for Rs. 2-4-0.

Total receipts and expenditure on the Civil Department side.

41. The total receipts from the sale of produce was Rs. 143, the expenditure amounting to Rs. 582-11-7.

9.—*Communications and Buildings.*

Buildings repaired and constructed

42. In the Attaran division an elephant shed was constructed on the jetty at the Battery Point timber depôt at a cost of Rs. 260-2-0.

Dismantling the old and building a new guard-house at Nantè cost Rs. 221-8-0.

The cost of earth-oiling and repairs to the Forest office at Moulmein came to Rs. 172-1-0. Total expenditure in the Attaran division Rs. 654-11-0. In the West Salween division a shed for storing the rations of the Kamu coolies employed on the plantations was erected at Kadaingti at a cost of Rs. 15.

In the East Salween division earth-oiling and repairs to the Forest office and bungalow, including the ceiling of a portion of the latter, amounted to Rs. 512-5-9, Rs. 115-2-3 being realized in rent during the year.

In the Kado division the total expenditure on Government buildings amounted to Rs. 1,025-9-5. This includes cost of some additions to the out-houses in the compound of the forest bungalow, Shwegun, quarters for the Forest Ranger, &c., Rs. 500; the removal of the exit guard-house at the Kado depôt to a better site, Rs. 383-8-2; the erection of two new tès at Mescik, Rs. 105; and general petty repairs, Rs. 37-1-3. In the South Tenasserim division the expenditure on repairs to Government buildings amounted to Rs. 18-4-6.

43. The launch *Attaran* attached to the Kado division made 97 trips during the year aggregating 4,350 miles, or 863 hours under steam. The working expenses amounted to Rs. 3,302-13-5, including wages of crew Rs. 1,337-13-5, coal Rs. 1,349-6-0, stores, &c., Rs. 368-8-0, repairs Rs. 167-2-0, and Surveyor's fees Rs. 80.

CHAPTER IV.

YIELD AND WORKING.

1.—*Departmental Operations.*

Departmental extraction of timber.

44. Of teak timber 25,802 logs, or 13,247 tons, were worked out by Government agency.

The extraction from different divisions and the rates paid are as below.

Teak Timber.

Division.	Number of logs extracted during the year.	Average rate paid to contractors per log.	Average cubical contents of logs.
		Rs. A. P.	c. ft.
Attaran	1,110	5 1 6	·28
West Salween	11,700	5 9 5	29
East Salween	12,992	6 6 2	21
Total ...	25,802	...	...

Ten thousand and sixty-three teak logs from the Thaungyin forests were still in transit at the close of the year. Timber of other kinds extracted on Govern-

ment account amounted to 2,573 logs, estimated at 2,201 tons, distributed as follows:

Division.	Timber.	Number of logs worked out during the year.	Average rate paid to contractors per log.	Estimated average cubical contents.
			Rs. A. P.	C. ft.
Attaran	Padauk	50	18 6 0	45
	Pyinma	628	8 0 0	55
	Thitka	119	10 1 7	61
	Pyinkado	88	6 0 0	26
	Other unreserved woods	16	...	37
West Salween	Pyinma	10	5 13 0	63
	Pyinkado	1,062	7 2 8	27
East Salween	Padauk	137	22 15 2	52
	Pyinma	337	8 0 0	60
	Unreserved woods	3	...	50
South Tenasserim	Pyinkado	125	...	38
	Padauk	1	5 0 0	36
	Pyinma	1	...	36
	Thingan	1	10 0 0	188
	Total ...	2,573	...	...

This shows an increase in extraction on last year of 5,855 logs, or 1,636 tons of teak, and 1,507 logs estimated at 1,104 tons of woods of other kinds. It has, however, to be noted that there is a considerable falling off in the size of teak logs extracted as compared with the previous year.

Contractors' outstandings.

45. The outstandings against timber contractors at the close of the year amounted to Rs. 11,699-14-5 distributed as follows:

	Rs.	A.	P.
Attaran division	3,740	10	0
West Salween division	280	0	0
East Salween division	5,819	6	8
South Tenasserim division	1,859	13	9

Of these amounts the outstandings in the East Salween division were recovered in full, and in the South Tenasserim division recovered in part soon after the close of the year. The balance is covered by work done with the exception of one item of Rs. 1,540-10-0, of which a portion, however, is covered by collateral security.

2.—*Removal of Produce by Purchasers.*

Timber extracted by lease-holders.

46. The timber brought out by lease-holders from the Attaran forests is shown below.

Forest.	Teak.		Other woods.				
	Logs and pieces.	Tons.	Thitka.	Pyinma.	Thingan.	Kaingmu.	Estimated total cubical contents of other woods.
							Tons.
Megwa-Kyunchaung ...	1,284	1,421	...	...	...	...	...
Mitfki-Kodugwè ...	414	310	515	136	11	1	599·30
Total ...	1,698	1,731	515	136	11	1	599·30

The duty realized was as follows:

	Rs.	A.	P.
On 871 teak logs of previous year	560	0	0
On 1,698 teak logs of present year	3,736	8	0
On 599·30 tons of other woods	1,235	4	0
Total ...	5,531	12	0

Extracted by purchasers from unreserved forests.

47. The quantities of reserved woods worked out by purchasers was as follows:

Division.	Thingan.		Pyinma.		Padauk.		Kaungun.		Anan.		Karwé.		Thitka.		Thilkado.		Kanzan.		Total.		Revenue.		
	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	T.	C. ft.	Rs.	A.	P.
Attaran ...	554	49	...		...		...		...		...		...		...		...		554	49	5,508	4	10
West Salween.	37	11	13	25	...		...		...		...		...		...		...		50	36	508	0	4
East Salween.	587	5	60	32	8	20	...		...		...		...		...		...		656	7	6,619	7	0
Kado ...	144	0	21	0	...		...		...		...		...		...		...		165	0	1,608	13	0
South Tenasserim.	2,855	0	...		...		627	0	83	0	36	0	168	0	6	0	117	0	3,892	0	3,608	0	0
Total ...	3,678	15	95	7	8	20	627	0	83	0	36	0	168	0	6	0	117	0	4,818	42	17,847	9	2

In addition to the above 2 tons 45 cubit feet of refuse teak was extracted on special license in the West Salween division, the amount realized being Rs. 29. Unreserved woods were brought out by purchasers to the following extent:—

Division.	Number of logs.	Nominal tonnage.			Revenue.		
		T.	C. ft.		Rs.	A.	P.
Attaran	5,011	3,883	29		6,178	1	0
West Salween	1,589	1,586	40		2,331	0	0
East Salween	2,595	2,899	35		4,246	8	0
Kado.	3,442	2,795	0		5,148	0	0
South Tenasserim	10,133	10,103	0		8,461	6	3
Total ...	22,770	21,268	4		26,364	15	3

Increase in quantity of timber removed by purchasers.

48. As compared with the previous year an excess of 1,854 tons of reserved and 2,525 tons of unreserved timber were brought out by purchasers. The revenue, however, realized from the latter was less owing to a less actual number of logs being extracted. On the whole, however, the revenue from this source shows a slight improvement. The increase in the export of reserved woods has chiefly taken place in the East Salween and South Tenasserim divisions, the demand for boat hulls increasing.

In unreserved woods there has been a falling off in the extraction of kanyin owing to a decrease in the demand for the wood for tea boxes.

Charcoal and minor produce removed by purchasers.

49. Charcoal and minor forest produce yielded a revenue of Rs. 2,341 as detailed below.

Produce.	Attaran division.			West Salween division.			Kado division.			South Tenasserim division.			Total.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Charcoal	222	0	0	4	8	0	...			8	8	0	235	0	0
Wood-oil	168	0	0	...			24	0	0	1,594	0	0	1,786	0	0
Ondôn bark	...			...			...			170	0	0	170	0	0
Pyu bark	...			...			...			115	0	0	115	0	0
Bamboos	...			...			...			20	0	0	20	0	0
Canes	...			...			...			15	0	0	15	0	0
Total ...	390	0	0	4	8	0	24	0	0	1,922	8	0	2,341	0	0

3.—*Free Grants.*

Free grants.

50. Free grants of reserved woods for religious purposes and works of public utility were made as follows:

Division.	Number of logs.							Total.
	Teak.	Pyinma.	Thingan.	Anan.	Thitka.	Karawé.	Kanzaw.	
Attaran	...	41	17	...	...	...	...	58
West Salween ...	...	2	...	...	...	...	...	2
East Salween	...	1	...	...	...	...	...	1
Kado	2	10	...	5	...	...	...	17
South Tenasserim ...	...	...	1	11	2	13	1	28
Total ...	2	54	18	16	2	13	1	106

4.—*Summary of Outturn.*

Outturn of circle.

51. The total outturn of the Tenasserim circle was as follows:

How removed.	Timber.				Charcoal and minor forest produce.
	Teak.	Reserved woods other than teak.	Unreserved woods.	Total.	
	Tons.	Tons.	Tons.	Tons.	Rs. A. P.
By Government agency	13,247	1,476	1,258	15,981	...
By lease-holders	1,731	599·30	...	2,330·30	2,341 0 0
By purchasers	2·45	4,818·42	20,762	25,583.87	...
Under free grants	1·10	102·41	...	104·1	...
Total ...	14,982·5	6,997·13	22,020	43,999·18	2,341 0 0

5.—*Drift Operations.*

Collection and disposal of drift wood.

52. The following statement shows the quantity of drift timber collected and disposed of:—

		Balance of 1888-89.	Collected in 1889-90.	Returned to claimants.	Sold or disposed of.	Balance at close of year.
		Logs.	Logs.	Logs.	Logs.	Logs.
Kado division	River drift teak ...	5,023	3,458	1,793	2,752	3,936
	Sea drift teak ...	888	1,141	...	880	1,149
	Confiscated canoes ...	1	87	...	85	3
	Woods of other kinds	46	198	1	200	43
South Tenasserim division.	Sea drift teak ...	1	2	...	3	..
	Woods of other kinds	5	29	8	12	19

The revenue realized on sale was Rs. 58,750-10-0 and on salvage Rs. 7,531. The total expenditure incurred on salving operations, inclusive of quota of charges for other expenditure, amounted to Rs. 35,206-9-4.

6.—Girdling.

Girdling operations.

53. In the East Salween division 713 teak trees were girdled by the Divisional Officer in the Ônkaraing, Megla, and Kyaukhet reserves.

7.—Disposals and Sale Depôts.

Local sales.

54. In the South Tenasserim division eight logs (12 tons) of unreserved timber brought out by Government agency and 17 logs (14 tons) of confiscated timber were sold for Rs. 278-14-6. Rupees 7 was also realized by the sale of 700 confiscated bamboos.

Conversion of scantlings, sleepers, &c.

55. Two shipments, comprising 6,244 pyinkado scantlings, were despatched to Calcutta and realized Rs. 3,828-10-3. Owing to the high rates of conversion at Tavoy the expenditure amounted to Rs. 3,586-15-4, leaving a profit of only Rs. 241-10-11.

Three thousand narrow gauge pyinkado sleepers were also shipped to Calcutta, but no payments had been made nor was the transaction closed at the end of the year.

Timber depôt. Moulmein.

56. The arrivals and disposals of timber at the Moulmein depôt and of sea drift logs at local depôts are shown in the following statement:—

Description.	Balance on 1st April 1889 (revised).		Arrivals during the year.		Sales and disposals during the year.		Balance on 31st March 1890.	
	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.
Teak	1,664	1,144	25,802	13,499	27,602	14,561	201	82
Drift teak	5,023	3,760	3,458	2,678	4,545	3,743	3,936	2,685
Woods of other kinds ...	726	595	2,446	2,101	2,446	2,011	725	685
Drift of other kinds ...	47	33	235	222	236	223	46	42
Miscellaneous ...	...	...	...	...	...	...	...	...
Scantling, sleepers, &c. ...	404	183	6,504	394	119	13	6,789	414
Sea drift teak ...	888	611	1,141	774	880	605	1,149	780

Summary of sales at the Moulmein depôt.

57. The sales from the Moulmein depôt realized Rs. 5,02,623 as detailed below.

	Logs.	Tons.	Rs.	A.	P.	per ton. Rs.	A.	P.
Teak, auction sales ...	30,731	18,855	4,51,054	6	0	23	14	9
Teak, indent sales, Madras and Bombay Gun Factories ...	144	156	15,823	3	4	101	6	10
Sales to Gun Factory, padauk-indent	114	118	15,120	12	3	128	2	3
Padauk, local sales ...	49	42	2,311	11	0	55	0	7
Pyinma, auction sales ...	397	362	4,947	8	0	13	10	8
Pyinma, indent sales ...	559	660	10,568	11	0	16	0	2
Thitka, auction sales ...	9	7	22	8	0	3	3	5
Thitka, indent sales ...	119	146	2,329	9	0	15	15	3
Thitkado, auction sales ...	5	5	10	0	0	2	0	0
Ingyin, indent sales ...	5	8	69	13	0	23	4	4
Thingan, indent sales ...	7	8	165	14	0	20	11	9
Unreserved, woods auction sales	16	12	184	0	0	15	5	4
Unreserved woods, indent sales	8	8	15	0	0	5	0	0

Approximate value of stock of timber at depôt.

58. The value of the stock in hand at depôt on the 31st March 1890, exclusive of foreign timber, is estimated at Rs. 89,130.

8.—Imports and Exports of Timber.

Imports of foreign timber at Kado.

59. The balance of foreign timber at the Kado revenue station at the beginning of the year was 56,599 teak logs, estimated at 48,501 tons, and 62 logs of other kinds.

The imports during the year amounted to—

94,368 full-sized teak logs.
20,268 under-sized teak logs.
8,986 stem-pieces.

Total ... 123,622 teak logs as well as 15 logs of other kinds

Compared with the imports of the previous year there was a decrease of 18,271 full-sized logs and an increase of 1,824 under-sized logs, and 4,314 stem-pieces, or a net decrease of 12,133 logs.

The quantity of timber removed from the Kado revenue station was 55,793 teak logs and two logs of other kinds. The balance at Kado at the close of the year was 124,428 logs of teak, estimated at 110,495 tons, and 75 logs woods of other kinds estimated at 59 tons.

Quantity of foreign teak timber on which duty was paid.

60. The quantity of foreign teak timber on which duty was paid at Kado and the corresponding figures of last year were as follows:

Year.	Logs.	Tons.	Value.	Duty realized.
			Rs.	Rs.
1889-90	55,048	36,352	19,85,900	1,39,014
1888-89	157,413	156,439	82,48,112	41,252
Difference in 1889-90 ...	102,365	—120,087	—62,62,212	+97,762

The Bombay Burma Trading Corporation, Limited, imported from Ningyan 745 logs estimated at 556 tons, the duty on which was paid at Toungoo.

Average market value of foreign teak.

61. The average market value during the year was Rs. 36-4-10 per log or Rs. 54-15-0 per ton, which shows the considerable decrease of Rs. 16-1-6 per log on the market value of the previous year.

Registration of hammer-marks.

62. In the Kado division 177 new hammer-marks for teak timber were registered at Rs. 100 each, 33 were transferred at Rs. 10 each, 40 were renewed at Rs. 25 each, and 326 at Re. 1 each. For woods of other kinds 49 new marks were registered in all divisions of the circle at Rs. 5 each, and three marks renewed in the South Tenasserim division at Re. 1 each, the total receipts from this source being Rs. 19,604, or Rs. 2,553 more than last year.

Exports of teak timber from Moulmein.

63. The total exports from the port of Moulmein of teak were 80,871 tons, or 12,594 tons less than in the previous year, due to smaller consignments generally to European and Indian ports.

The export of woods other than teak is steadily growing in importance; 6,256 tons were exported this year as against 2,651 tons in the previous year.

The exports of teak from Moulmein to Europe were 25,462 tons, or 2,248 tons less than in the previous year.

Export trade of teak to Europe.

64. The prices in the home market were stationary for the first eight months from £11 to £12-10-0 per ton, when they fell by £1, and at the close of the year by a further 10*s*. per ton.

The competition of Bankôk teak has acted most unfavourably on the exports from Moulmein.

The stocks of teak in the home market at the end of the year stood very high and further shipments were strongly deprecated. Freights homeward rose as high as 52*s*. 6*d*. per ton in August.

Export trade of teak to Indian markets.

65. As regards the Indian market the prices given for squares and scantlings fluctuated little, rising in Calcutta and falling in Bombay slightly towards the end of the year.

Shingles have risen in Moulmein from Rs. 19 to Rs. 20—22 per 1,000.

The trade in tea-boxes shows a considerable decline, the local mills in India being able to compete on more favourable terms. Ceylon is beginning to take exclusively to boxes from Japan, which being of wood of a lighter weight are preferred when freight has to be paid by weight.

CHAPTER V.

FINANCIAL RESULTS.

Financial results.

66. The revenue and expenditure of the year amounted to—

	Rs.
Revenue	7,33,558
Expenditure	3,73,312
Surplus ...	3,60,246

showing a net increase of Rs. 64,953 on the previous year's surplus.

Comparison with previous years.

67. The comparison with the figures of the previous three years is as follows :

Year.	Revenue.	Expenditure.	Surplus.
	Rs.	Rs.	Rs.
1886-87	5,01,312	4,20,656	80,656
1887-88	5,43,803	3,29,374	2,14,429
1888-89	6,69,822	3,74,529	2,95,293
1889-90	7,33,558	3,73,312	3,60,246

Detailed comparison with previous year:
(a) Timber extracted by Government agency.

68. The revenue on timber extracted by Government agency amounted to Rs. 4,45,884, showing a decrease of Rs. 35,859 on the previous year, due to the fall in prices of teak towards the close of the year, and to the sleeper contracts in Attaran and South Tenasserim divisions not having been completed before the 31st March 1890.

The expenditure was Rs. 212,940, or Rs. 6,082 less than last year, attributable to the inferior quality of timber brought down by contractors who received lower rates in consequence.

(b) Timber extracted by purchasers.

69. The receipts for timber and minor forest produce removed by purchasers amounted to Rs. 52,107, or Rs. 6,527 more than in the previous year. The cost of collection was Rs. 1,239, of which Rs. 397-11-9 were arrears of pay due to a subordinate on the temporary establishment.

(c) Drift operations.

70. The receipts on account of drift timber amounted to Rs. 66,282, the expenditure to Rs. 31,701. Compared with the previous year, the former shows a decrease of Rs. 13,548, due to a less number of logs being sold on account of the unfavourable state of the teak market. The expenditure is Rs. 897 in excess of last year, owing to the large disbursements on account of coal for the launch *Attaran*.

(d) Duty on foreign timber.

71. The duty on foreign timber shows an increase of Rs. 97,762, consequent on the higher rate of duty imposed from the 1st April 1889. The expenditure shows a small increase of Rs. 712, calling for no remark.

(e) Miscellaneous.

72. The increase under "Miscellaneous" was Rs. 8,847, consequent on an increase in the number of hammer-marks registered.

(f) Live-stock, stores, &c.

73. The disbursements on account of the purchase of two elephants for the use of the Conservator and of one elephant to replace a death among the elephants attached to the East Salween division amounted to Rs. 2,870, the feed and keep of cattle and purchase of stores to Rs. 6,046.

(g) Communications and buildings.

74. The expenditure on communications and buildings shows a decrease on the previous year of Rs. 705, calling for no remark.

(h) Works of improvement

75. The extension of teak taungya plantations from 854 acres in 1888-89 to 1,256 acres in the year under report accounts for the increase of Rs. 1,254 under this head.

(i) Establishments

76. The cost of establishments, notwithstanding a slight increase under a few items, shows a decrease of Rs. 866 on the whole, due chiefly to the decrease in pay of Conservator.

Revenue and expenditure by divisions

77. The revenue and expenditure by divisions was as follows:

Division.	Revenue			Expenditure.	Surplus or deficit
	Collected locally.	Agency collection.	Total.		
	Rs	Rs	Rs	Rs.	Rs
Attaran and Agency		66,445	66,445	41,755	24,690
East Salween ...		2 71,665	2,71,665	1,38,248	1,33,417
West Salween		1 36,812	1,36,812	1,01,965	34,847
Kado	2,40,524	...	2,40,524	73,020	1,67,504
South Tenasserim	18,612		18,612	18,324	288
Total	2,59,136	4,74,422	7,33,558	3,73,312	3,60,246

Summary of receipts and charges.

78. The summary of receipts and charges compared with the last two years is as below.

	Receipts			Charges			Surplus or deficit					
	1887-88	1888-89	1889-90	1887-88	1888-89	1889-90	1887-88		1888-89		1889-90	
							Surplus	Deficit	Surplus	Deficit	Surplus	Deficit
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
I—Departmental timber operations	3,09,166	4,61,743	4 45,884	2,12,748	2,41,751	2,40,918	1,56,418		2,20,992		2,04,966	
II—Other revenue	1 74,687	1 88,079	2,87,674	925	93 502	92,509	92,312		94,577		1,95,165	
III—Formation and improvement				34,901	39,276	39,885		34,901		39,276		39 885
Total ..	5 43,803	6,69,822	7,33,558	3,29 574	3,74,520	3,73 312	2,14 429		2,95,293		3,60,246	

CHAPTER VI.

Acts and rules

The following revisions were made during the year in the rules:—

In Notification No. 178 (Forests), dated the 4th December 1889, in supersession of Notifications No. 5, dated the 10th January 1883, No. 36, dated the 16th September 1886, and No. 128, dated the 4th October 1888, the words "and in such portion of the Shwegyin district as is included in the Tenasserim circle" were added opposite the list of trees declared reserved in the Amherst and Salween Hill Tracts districts.

Notifications Nos. 14 and 15, dated the 17th January 1890, were issued revising the areas on which unmarked timber should be deemed the property of Government and the rules relating to the control of timber in transit respectively.

Elephants.

The number of elephants was increased by three, the average monthly cost of each animal being Rs. 33-4-3.

Controlling staff

The Tenasserim circle was in charge of Mr J W. Oliver till the 6th July 1889, when, on his transfer to the charge of the Upper Burma circle, he was relieved by the writer of this report.

The health of officers has on the whole been fairly good.

The Officiating Conservator's thanks are due to all Divisional Officers for the zeal and energy they have displayed.

Executive staff

The reports on the conduct and work of the executive staff are not favourable. In point of fact the staff is too weak in numbers to cope satisfactorily with the increasing work of the circle. Forest Ranger Mr. R Richards, South Tenasserim division, was removed from the service for overstaying his leave, and Forest Ranger Maung Thaw Tu, Attaran division, resigned the service.

Office establishment

Office establishments have worked generally well. Credit is due to Babu Ramaswamy, Head Clerk, Attaran and Agency division, who, under Mr. Ferrars' superintendence, really represents the Agency Officer in the Tenasserim circle. Mr. Lyddy, Head Clerk and Subdivisional Officer, Kado division, died suddenly on the 28th August 1889, and was succeeded by Mr. R. M G. Martin, who had served as Head Clerk in the Court of the Judge of Moulmein. Mr. Lyddy, who had great experience in the onerous and peculiar work of the Kado timber depôt, will not easily be replaced. His successor, Mr. Martin, is very badly reported on by the Divisional Officer. Mr. Johnson has ably superintended the work of the Conservator's office and was of the greatest assistance to the Kado office on the occasion of Mr. Lyddy's sudden death.

MOULMEIN:
The 19th June 1890.

C. T. BINGHAM, MAJOR,
Offg. Conservator of Forests, Tenasserim Circle.

REPORT

ON

FOREST ADMINISTRATION

IN

THE PEGU CIRCLE

For the year 1889-90,

BY

E P POPERT, ESQ., CONSERVATOR OF FORESTS

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

Additions to sanctioned reserved forests

1. During the year sanction was received to the reservation of the following forests:—

	Area Sq miles	
Pyuchaung ...	93	approximate.
Yenwè .	250	
Ngabwa	88	
Total ..	431	

Proposals for reservation

2. Proposals were submitted for the reservation of a teak tract 25 square miles in extent, to be called Chaungma-ngè reserve, in the Toungoo division, and the preliminary notification was published shortly after the close of the official year.

Forest settlement operations

3. The proposed cutch reserves, Thigôn and Ohnèzan, in the Sinbaungwè township, Thayetmyo division, have been settled and the Settlement Officer's report was under preparation at the end of the year. The Settlement Officer in the Toungoo division completed the settlement of the addition to the Saing reserve, and of the four fuel and fodder reserves.

Total area of reserved forests in the circle.

4. The total area of reserved forests amounts to 3,762 square miles. The alterations in the areas of previously sanctioned reserved forests in Form 49 are due to the completion of the accurate survey.

Relaxation of teak restriction in the plains in the Prome district

5. With the view of relaxing the teak restriction in the plains, as has been done in the Tharrawaddy district, a commencement has been made and 19 patches of teak have been selected for demarcation in the Prome district; these have yet to be surveyed and entered upon the kwin maps.

Fuel reserves partially opened for permanent cultivation

6. As a tentative measure the local Government has sanctioned the conversion into paddy-land of parts of the following fuel reserves (which adjoin the railway line):—

Kyunchaung.	Sitkwin.
Thitpyat.	Chaungnagôn.
Thabyu.	Chaungzauk.

For the present land within half-a-mile of the railway may be cleared upon leases issued by the Forest Department and the leased lands remain part of the reserved forests.

Rules for village cutch forests in the Thayetmyo district.

7. Rules for the management of the village cutch forests in the Thayetmyo district were notified shortly after the end of the year. The result of the experiment will not be apparent for some little time.

2.—Boundaries.

Demarcation of sanctioned reserved forests.

8. All sanctioned reserves with the exception of the Pyu, which was in hand at the close of the year, have been demarcated.

Inspection of boundaries and renewal of boundary marks.

9. In the Thayetmyo division the boundaries of all reserves on the east of the Irrawaddy river are reported properly demarcated. These on the west of the river were not examined; this will be done next season and the necessary repairs executed.

In the Prome division the Divisional Officer inspected the boundaries of all his reserves with the exception of the Gwegyo and Nawin Yoma reserves, which were examined by the Ranger and foresters. All the reserves in this division, with the exception of the Sinmizwè, Pauktaw, and Nyaungbindet, which need repairs to boundary mounds and renewal of some boards, are in thorough order.

The necessary attention was paid to the boundaries of reserves in the Tharrawaddy division and an outlay of Rs. 234-8-0 was incurred upon the following reserves: —

Shwelè.	Kadin Bilin.
Taungnyo.	Thônzè.
Gamôn.	Kangyi.
Myaung.	Thakolan.

In the Rangoon division the Divisional Officer inspected the boundaries of the Thabyu, Kyunchaung, Hlaing Yoma, and Paunglin reserves. In renewing boards and mounds, and upon re-blazing trees along the boundaries Rs. 133 were expended.

In the Toungoo division Rs. 1,170-11-6 were expended in renewing blazes and putting up additional boards and mounds as follows:

	Mounds and posts.	Boards.	Rs.	A.	P.
East Swa ..	.. 120	200	295	6	0
West Swa ...	... 54	128	280	12	0
Lônyan ...	... 70	117	202	8	0
Sabyin ...	... 86	60	176	0	0
Kyaukmasin ...	... 40	160	45	0	0
Gwèthè ...	... 100	812	85	8	0
Bôndaung ...	... 1	...	6	0	0
Kabaung ...	... ...	...	58	1	6
Kanni ...	... .	70	1	8	0
Gônwè ...	... 20	...	20	0	0

In the Shwegyin division the newly sanctioned Yenwè and Ngabwa reserved forests were demarcated with 27 numbered posts and 695 boards, and 28 posts and 590 boards respectively. All trees along the boundary lines have been blazed and hammer-marked. Fourteen new boards have been nailed up on the boundary of the Kyundaung and five in the Binbyè reserve.

Teak clumps in the Tharrawaddy district demarcated.

10. The teak clumps in the plains in the Tharrawaddy district have been demarcated at a cost of Rs. 109-0-9.

Encroachment upon reserved forests.

11. In the Prome division 18 men of Singaung cut taungyas inside the North Nawin reserve; their excuse was that they believed the boundary had been altered and thrown back to one of the survey traverse lines. The offence was compounded.

Some Karens from the Toungoo side under the leadership of one who proclaimed himself a god cut taungyas in the Nawin reserve. They were prohibited

from burning or cultivating the taungyas. A third encroachment was discovered in the Prome division. Some Burmans and Chins had taken possession of one Karen area and ousted the Karens, who had fled in all directions. Their leader was a man who had been twice previously ejected; he was prosecuted and fined Rs. 25 by the Deputy Commissioner, and the others were ejected. This instance proves the wisdom of and necessity for the inclusion of the areas set apart for the Karens as part of the reserved forests.

CHAPTER II.

1.—*Surveys.*

Forest survey operations.

12. The forest survey party was employed chiefly in the North Nawin, Prome district, and Kabaung reserved forests, Toungoo district. It also surveyed about 8 square miles in the Thayetmyo district and 4½ square miles of the West Swa reserve, Toungoo district. No 2-inch survey was undertaken. In all about 171 square miles of 4-inch survey and 240 square miles of traversing were completed. The approximate cost of the 4-inch survey amounts to Rs. 368 per square mile and the total estimated expenditure to Rs. 1,08,900. The work was sadly interfered with. An outbreak of cholera at Calcutta among the men prevented the party from taking the field near Singaung until the 14th December 1889, and up the Kabaung river until the 20th December. The season was exceptionally unhealthy, added to which the Kabaung valley is notoriously malarious. Consequently nearly the whole party suffered from fever or dysentery, which not only prostrated the men for a time, but which left them so debilitated and enervated that they were incapable of undergoing much physical exertion without incurring a relapse. The party was not at all molested by dacoits.

2.—*Working Plans.*

Working plan for Bawbin-Minbu working circle prepared.

13. A working plan was drawn up for the Bawbin-Minbu working circle, 129·2 square miles, and submitted to the Inspector-General of Forests. It is proposed to extract 1,600 teak trees per annum. The submission of the plan was delayed in the printing and in consequence of Mr. Hoghton having charge of the Rangoon division during its compilation.

Field-work of Working Plans division.

14. The working plans party under Mr. Corbett, Officiating Deputy Conservator of Forests, completed the examination of the Taungnyo forests, Tharrawaddy division. Further field-work was impossible as both officers, Messrs. Corbett and Carter, were too ill to remain in the forests.

Area examined and cost.

15. The area examined amounts to over 125 square miles and the expenditure to Rs. 14,217-13-0, or Rs. 113-11-0 per square mile. The average cost exceeds that of the previous year by Rs. 3-15-3 per square mile. The work itself was chiefly on the upper parts of the Taungnyo, to which all supplies had to be conveyed at a very heavy cost.

3.—*Annual Plan of Operations.*

Annual plan of operations worked up to by Divisional Officers.

16. The plans of operation have been well adhered to by Divisional Officers as will be seen from Appendix P

CHAPTER III.

PROTECTION AND IMPROVEMENT.

1.—*Establishment.*

Changes in superior staff.

17. Messrs. McHarg and Long, Assistants appointed by the Secretary of State, joined the circle on the 6th January 1890, and Mr. Branthwaite, Assistant Conservator of Forests, was transferred from the Upper Burma circle. The circle lost the services of

Major Bingham, Deputy Conservator of Forests, who was transferred in July to the Tenasserim circle to officiate as Conservator.

Alterations in subordinate staff.

18. Mr. C. W. Allan, Sub-Assistant Conservator, was transferred to the Upper Burma circle; otherwise no alterations were made in the scale of the subordinate establishment.

Comparative cost of permanent and temporary subordinate establishments.

19. The following statement shows comparative cost with the previous year of permanent and temporary establishments:—

Division.	1888-89.		1889-90.			
	Cost of permanent establishment.	Cost of temporary establishment.	Sanctioned permanent establishment.	Sanctioned temporary establishment.	Actual cost of permanent establishment.	Actual cost of temporary establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Thayetmyo ...	...		3,086	4,290	2,525	2,291
Prome	7,806	2,733	5,281	2,528	5,575	1,347
Tharrawaddy ...	13,747	4,500	16,688	6,800	12,682	4,988
Rangoon .. .	10,795	2,817	10 950	3,552	10,145	2,760
Toungoo	9,027	1,368	9,778	1,892	9,496	1,826
Shwegyin	5,248	1,057	5,157	1,680	5,696	1,224
Western	5,178	2,093	5,672	2,820	5,760	2,383
Agency	27,198	11,156	27,210	13,840	24,010	10,845
Total ...	78,994	25,724	83,722	36,908	75,889	27,609

Formation of Thayetmyo division.

20. From the 1st June 1889 the Prome division was divided into two divisions,—the Thayetmyo and Prome divisions. This measure was necessary as the area of forest in the Thayetmyo district has been largely increased by the addition of the Minhla subdivision and Sinbaungwè township, which formed part of Upper Burma before the annexation. Each of these districts has now a Divisional Officer at its headquarters.

2.—*General Protection and Breaches of Forest Law.*

Breaches of forest law.

21. During the year 923 breaches of forest rules, involving 1,077 individuals, were settled, 148 cases implicating 260 men were sent into Court, and convictions obtained in 137 cases against 225 men. Divisional Officers compounded 775 cases, in which 817 men were concerned, for Rs. 8,568-8-2. There were no very serious forest offences beyond those noted in paragraph 11 of the report. The percentage of convictions in cases tried by Magistrates amounts to more than 92 per cent. There has been a large decrease in the number of cases of illicit cutch-boiling and cutch thefts as but few licenses were granted in the Prome district.

Increase in number of cases compounded explained.

22. The large increase in the number of cases compounded is chiefly due to the punishment of teak taungya-cutters inside reserves. For several years they have been warned against the wilful destruction of standing teak in their taungyas, but without avail; and this year, before burning their yas, they were told they would be punished if teak trees were again carelessly destroyed. In very many cases no attention was paid and the men have been fined. It would be absurd to allow cultivators inside reserves to destroy teak and to prosecute men cultivating outside reserves for the same offence. As rewards to informers Rs. 566-12-0 were paid.

3.—*Forest Fires.*

General result of fire-protection.

23. Fire-protection has been successful partly owing to the favourable season. Of a total area of 158,980 acres attempted 155,866 were protected at a cost of Rs. 13,997, or 1 anna 5 pies per acre. The area operated upon is considerably in excess of the previous year and the cost per acre protected less.

24. It was proposed to protect the whole Tindaw reserve, but before the trace was even cleared three fires had occurred. Operations were then confined to the protection of the taungya plantations, and of 167 acres 147 were protected. The expenditure amounted to Rs. 63, or 6 annas 10 pies per acre protected.

Thayetmyo division fire-protection.

25. The Prome plantation was again burnt, but the offenders were not discovered. One small fire, covering about 12 acres, occurred in the Chaungzauk reserve; no plantations were burnt. It was caused by the carelessness of some midnight traveller in the path from Kadin-ngazin to Bambwèdaung. The season's expenditure amounted to Rs. 771, or slightly less than 2 annas per acre.

Prome division fire-protection.

26. This division has been the least successful. Work is scattered over 14 different blocks which cannot be amalgamated into one large trace. In all 26 fires occurred. Nine of these are ascribed to incendiaries and three to the carelessness of persons going through the reserves. All the others were the fault of either subordinates or taungya-cutters inside reserves and could never have occurred if orders had been adhered to. The largest fires occurred, as in the previous year, in the Gwedaukkwin and Kyaukkyidaung reserves. The first reserve was wilfully fired no less than five times. No system of fire-tracing or watchers can prevent incendiarism and, if this reserve is to be protected, other measures must be adopted. Of 56,715 acres attempted to be protected 53,711 were successful and the cost amounted to Rs. 7,464, or 2 annas 2 pies per acre protected.

Tharrawaddy division fire-protection.

27. No fires occurred in this division and 35,857 acres were protected at a cost of Rs. 3,277, or about 1 anna 5 pies per acre.

Rangoon division fire-protection.

28. With the exception of 3 acres burnt in the Kabaung reserve by coolies of the topographical survey party fire-protection was completely successful, and the Divisional Officer deserves credit for the success as well as the low cost of the work, which only came to Rs. 2,402 for the protection of 59,760 acres, equivalent to a trifle below 8 pies per acre.

Toungoo division fire-protection.

29. The four teak yas of the previous year ($6\frac{1}{2}$ acres) were protected by the cultivators and Rs. 20 were given them as a reward. It is hoped next year a more considerable area will be protected in this division.

Shwegyin division.

30. From the table below may be seen the total area burnt in each reserve and the area of plantations and sowings.

Summary of fires.

Division.	Reserve.	Area fire-traced.	Area over which fires spread.		
			Total.	Of forests.	Of plantations and sowings.
		Acres.	Acres.	Acres.	Acres.
THAYETMYO ..	Tindaw	167	20	...	20
PROME	Prome plantation ...	75	75	...	75
	Chaungzauk	6,400	12	12	...
THARRAWADDY	Kyaukkyidaung ...	2,180	789	729	60
	Gwedaukkwin ...	8,978	1,391	1,299	92
	Bwet	7,976	218	180	38
	Nyanlè	4,518	263	169	94
	Bawbin	1,500	3	1	2
	Kangyi	4,914	11	11	...
	Myodwin	40	2	...	2
	Myaung	1,860	194	147	47
	Minhla Môkka ...	4,684	21	...	21
	Môkka Bilin	17,917	97	97	...
	Kôn Bilin Thôuzè ...	3,460	20	20	...
TOUNGOO ...	Kabaung	2,560	3	3	...
	Total ...	62,224	3,114	2,668	446

Effect of fires of previous year upon plantations.

31. The plantations burnt over in the Tharrawaddy division last year have been carefully examined with the following result.

In Kyaukkyidaung the burnt area included—

11 acres of 1883 plantations;	47 acres of 1884 plantations;

78 acres of 1885 plantations.

The plantations of 1883 and 1884 were not materially damaged last year. They were imperfectly stocked from the commencement and previous fires had in many cases killed out the cutch. The plantations of 1885 in most cases suffered severely and very little of the cutch will survive; but the yas planted by the villagers of Pyangyidet did not suffer so severely, and it seems doubtful whether the fire passed through the whole of the plantations.

In Gwedaukkwin the burnt area included plantations of 1883, 1884, 1885, and 1888. The plantations of 1883 bear little trace of injury by last year's fire. The injury was greater in the plantations of 1884, but not severe, while some parts of the plantations of 1885 have been considerably damaged. If these plantations could be successfully protected for two or three years, the teak trees would soon outgrow the injuries, but the cutch trees are in some cases ruined. The plantations of 1888 have not suffered, and it is doubtful whether the fire entered them, although they were included in the area burnt.

In Bwet the following plantations were burnt:

24 acres of 1881 sowings.	10 acres of 1882 sowings.

20 acres of 1884 sowings.

The trees were five to seven years old and, beyond slightly scorching the bark of a few of the trees, the fire did no damage.

In Nyanlè the following plantations were burnt:—

1 acre of 1879.	6 acres of 1882 sowings.
11 acres of 1880.	19 acres of 1882.
10 acres of 1881 sowings.	14 acres of 1885.

1 acre of 1887.

These have all suffered little except the teak taungyas of 1885, which contained a lot of kaing grass. Here, over the greater part of the area, the trees have been burnt down to the ground. They have thrown up vigorous shoots from the stool.

The 2 acres burnt in Lower Payagyi consisted of teak taungyas of 1886. Very little damage was done.

The 2 acres burnt in Bawbin were teak taungya of 1884 and here also the damage was slight.

In Kangyi the following plantations were burnt:—

9 acres of 1884.	8 acres of 1886.

10 acres of 1887.

In the plantations of 1884 there is a lot of kaing grass. The fire reached a height of 10 feet, and scorched even the larger trees and destroyed the terminal shoots of the smaller ones. The wonderful vitality of the teak tree will probably repair these damages in the course of a year or two. The plantation of 1886 had been weeded in the previous rains. Some of the smaller trees have been burned down to the ground, but the larger ones have in most cases escaped injury. The plantation of 1887 being young suffered, but the trees have thrown out very vigorous shoots from the stool and will in a year or two have lost all traces of the fire.

In Myodwin the acre of 1885 plantation was burnt, but the damage was slight.

In Myaung the following plantations were burnt:—

11 acres of 1874.	48 acres of 1875.

23 acres of 1887.

The plantations of 1874 and 1875 show no trace of injury. The trees in the plantation of 1887 were in many cases burned down to the ground, but they have sent out vigorous stool shoots, and only a careful examination discloses the fact that fire has passed through the plantation.

In Minhla 3 acres of 1884 plantation were burnt, but the damage is slight. In Môkka fire passed through—

10 acres of 1868;	106 acres of 1874;
10 acres of 1869;	133 acres of 1876;
12 acres of 1870;	8 acres of 1884;
75 acres of 1873;	5 acres of 1887.

The older plantations have suffered no injury. In 1884 plantations some of the trees have been blackened to a height of 6 feet, most have escaped injury, and no permanent damage has been done. In the plantations of 1887 the injury done is scarcely perceptible.

In Bilin fire extended over—

16 acres of 1883;	6 acres of 1886.

In the plantation of 1883 a few trees have been scorched, but the injury is slight. In that of 1887 the larger trees are not much injured. Some of the smaller ones have been burned to the ground, but have thrown out healthy shoots from the stool.

In Thônzè 10 acres were burnt, 8 acres planted in 1885 and 2 acres planted in 1887. In neither case is the damage perceptible.

4.—*Grazing.*

Grazing inside reserves.

32. Rupees 94-12-0 were realized from reserves in the Tharrawaddy division as grazing dues upon 193 head of cattle and in the Rangoon division for grazing 414 beasts Rs. 124 were collected. Right-holders in the Tharrawaddy division grazed 1,598 animals free of charge inside reserves. There is no doubt much illicit grazing takes place inside reserves in the plains. As the revenue obtainable is small and the damage done but slight no very close supervision is exercised.

5 and 6.—Reproduction by Natural and Artificial Means.

(a) Improvement Girdlings and Fellings.

Operations for the improvement of existing stock of teak.

33. In the Tharrawaddy division, previous to girdling the teak, creepers were cut and inferior trees which hindered the free development of the young teak girdled. The work has been carefully done, although more useless trees might have been girdled with advantage. The following areas were treated :—

	Rs.	A.	P.
Thônzè working circle, 4,092 acres, costing	1,758	11	6
Kôn Bilin Working circle, 440 acres, costing	264	2	6
Kadin Bilin circle, 3,527 acres, costing	624	6	0
Môkka, 2,569 acres, costing	270	8	0
Minhla, 6,376 acres, costing	303	8	0
Gamôn, 3,057 acres, costing	266	8	0
Total 20,961 acres, at a cost of	3,487	12	0

or an average of 2 annas 8 pies per acre.

In Kangyi reserve Rs. 481-4-0 were spent on creeper-cutting.

In the Toungoo division similar operations were carried out with this difference, that all sap-wood trees which dominated teak were felled. The work was entrusted to foresters with the opposite result to that in the Tharrawaddy division. Trees not interfering with the growing stock of teak have in several instances been felled or girdled. The areas operated upon, noted below, must derive great benefit and the money has been well spent.

	Rs.	A.	P.
Saing Yanè reserve, 250 acres, costing	780	9	9
East Swa reserve, 50 acres, costing	207	11	4
Bôndaung reserve, 100 acres, costing	346	6	0
Pyunchaung reserve, 50 acres, costing	58	8	0
Total 450 acres costing	1,393	3	1

or Rs. 3-1-6 per acre.

In addition creepers were cut over about 5,000 acres in the Saing Yanè reserve at a cost of Rs. 73-2-0; and in the Kyaukmasin reserve, in conjunction with the teak girdling, Rs. 115-8-0 were expended in creeper-cutting and girdling useless trees.

(b) Regular Plantations.

Additions to regular plantations.

34. In the Rangoon division 27·4 acres were added to the regular plantations at Magayi at a cost of Rs. 359-4 6, or Rs. 13-1-9 per acre, and 3·6 acres to the Kyetpyugan plantation at a cost of Rs. 16-7-1 per acre. These areas are fully stocked.

(c) Taungya Plantations.

Summary of additions to taungya plantations.

35. The area cleared and burnt amounted in the different divisions to 2,837·5 acres. Of this 11·25 acres of teak yas in the Tharrawaddy division, 280·5 acres in the Rangoon division, and 8 acres in the Toungoo division, and 7 acres of cutch yas in the Toungoo division contained at the end of the year less than 500 seedlings to the acre, so have been excluded from Form 52(*A*), leaving as successful 215 acres of teak and cutch with an average of 988 plants to the acre and 2,315·75 acres of pure teak with an average of about 1,100 seedlings to the acre, costing Rs. 11-4-0 an acre. With few exceptions throughout the taungya plantations of this year the seedlings, though healthy, are not as high as in former years. They suffered from drought in the middle of the rainy season, and later on from the shade of the paddy, which was exceptionally good with unusually high stalks.

Details of increase to taungya plantations according to divisions.

(a) Thayetmyo division.

36. In the Thayetmyo division areas were cleared for sowing in the Satsuwa and Tindaw reserves. Those in Satsuwa were abandoned by the cultivators, and in Tindaw reserve 170 acres of teak and cutch were planted up at a cost of Rs. 1,541-8-1, or Rs. 9-1-1 per acre, with an average of 988 seedlings.

(b) Prome division.

In the Prome division 197 acres in the Chaungzauk reserve were planted up with teak and cost Rs. 1,556-10-6, or Rs. 7-14-5 per acre. The average number of seedlings was 767 per acre.

(c) Tharrawaddy division.

In the Tharrawaddy division 2,009·5 acres were burnt. Of this 1,998·25 acres were successfully stocked with an average of 1,148 seedlings to the acre, costing Rs. 11-10-2.

(d) Rangoon division.

In the Rangoon division, in the South Zamayi reserve, 391 acres were cleared. Of this 280·5 cultivated by the Karens of Panya tè proved unsuccessful, having only an average of 200 seedlings to the acre. The failure is ascribed to the bad quality of the seed. The successful area amounts to 110·5 acres, which cost Rs. 1,184-13-10, or Rs. 10-1-2 per acre, with an average number of seedlings of 940.

(e) Toungoo division.

In the Toungoo division the taungyas in the Pyunchaung reserve, 8 acres of teak and 7 of cutch, failed owing to the negligence of the Ranger in charge. The Myohla reserve yas, 10 acres in extent, have only an average of 547 seedlings to the acre. They suffered from drought, but have been included as successful. When cleared next rains it will be seen whether it is worthwhile maintaining them. The cost of the 55 acres amounted to Rs. 538-0-7, or Rs. 9-12-6 per acre, and the average number of seedlings to 775.

Creeper-cutting, Weeding, and Thinning.

Regular plantations thinned or cleared.

37. The Prome plantation was thinned, and the older plantations at Magayi and Kyetpyugan cleared of creepers and soft woods.

Old taungya plantations weeded or cleared.

38. Not less than 5,500 acres of old taungya plantations were weeded or cleared in the different divisions. These operations are of the greatest importance, requiring intelligent and constant supervision, and have to be conducted at the most unhealthy season, when labour is most difficult to obtain. The taungya plantations of the previous year, 29 acres in extent in the Tindaw and Satsuwa reserves, were cleared at a cost of Rs. 3-5-2 per acre. All the old taungya plantations in the Chaungzauk reserve, Prome division, 1,195 acres in

extent, were weeded or cleared, those of 1887 and 1888 being twice weeded. The work cost Rs. 1,464-14-0, or an average of Rs. 1-3-7 per acre. This is a very low average and is doubtless owing to the Divisional Officer himself, who contracted severe jungle fever, having personally supervised the work. In the Tharrawaddy division 3,422 acres of old taungya plantations were weeded at a cost of Rs. 2-6-10 per acre. The old taungyas in the South Zamayi reserve, Rangoon division, were partially weeded by the Karens. In the Toungoo division 565 acres of taungya plantations were cleared at a cost of 14 annas per acre. Upon careful examination of the areas attempted to be planted up last year in the Kyundaung reserve, Shwegyin division, a fair number of seedlings was discovered and, to give them a chance, they were cleared at a cost of Rs. 63.

Teak sowings in reserves cleared.

39. The teak sowings of 1878, 1882, and 1883, about 650 acres in extent, in the Kadinzauk and Bwet reserves, Tharrawaddy division, were cleared at an average cost of 14 annas 4 pies per acre, and the small area dibbled over in the Bôndaung reserve in 1886 was weeded at a cost of Rs. 20-12-6.

Experiments and Exotics.

Mahogany cultivation in Prome and Toungoo divisions.

40. There are still 14 mahogany plants alive in the Chaungzauk reserve, Prome division, and 34 in the Saing Yanè and Pyunchaung reserves, Toungoo division. They do not flourish, and these experiments seem to prove this tree will not thrive so far from the seacoast.

Tharrawaddy forest garden.

41. The only addition to the Tharrawaddy forest garden was one Moreton Bay chestnut. The 29 mahogany seedlings of the previous year were planted out and 21 survived. The expenditure upon the garden amounted to Rs. 592-13-0.

Exotics at Magayi.

42. At Magayi the *Chevannesia esculenta* thrive and 248 out of 1,294 trees are bearing fruit. There are 56 mahogany alive, the largest of which is 26 feet high and 1 foot 6 inches in girth. The *ceâra* rubber grows well enough, as in the Tharrawaddy garden, to a certain height, is then attacked by whiteants and easily blown over. The ficus trees continue to thrive. The vanilla plants look healthy, but no pods were obtained.

Communications and Buildings.

(a) Roads, Bridges, and Streams.

Improvements to road communications.

43. Rupees 120 were spent on three culverts on the road through the Kangyi reserve and Rs. 229-6-0 in repairing the road itself. Rupees 75-8-0 were laid out in improving the track through the Bawbin reserve and in opening up another into the plantation. This latter will, it is hoped, induce license-holders to cut bamboos in the plantation which interfere with the growth of the young teak. One of the bridges in the Kimpadi road was renewed at a cost of Rs. 356-12-0.

Improvements to waterways.

44. The channel of the Swa stream was improved at a cost of Rs. 125. Rupees 759-10-3 were spent on the Taungnyo stream and Rs. 342 on the Shwelè stream. The work consisted of making bunds where the stream was attempting to leave its old course for a new one and of repairing such bunds where necessary. In the Taungnyo stream efforts have been fairly successful, but the Shwelè left its old course and the channel dug last year, and now runs to the north of its former course. It is doubtful whether any good can be done to this stream so long as the stream itself is leased as a fishery.

(b) Buildings.

Tindaw rest-house burnt. New buildings and repairs to existing ones.

45. The Ranger's quarters at Tindaw, Thayetmyo division, were burnt down by dacoits in August; the usual repairs were done to the rest-houses at Kadin-ngasin and Taunglè; the Prome office and bungalow were painted at a cost of Rs. 219-1-0. A new rest-house was built at

Kangyi, costing Rs. 500; out-houses were added to the Tharrawaddy forest office at a cost of Rs. 679-6-3. At Taikkyi revenue overseer's quarters were erected at a cost of Rs. 356-12-0, and the bungalows at Illègu and Pegu were repaired at a cost of Rs. 985-9-9 and Rs. 248 respectively. Minor repairs were done to the rest-houses in the Toungoo division. The erosive action of the Sittang necessitated the removal of the bungalow at Myitkyo to a safe site at a cost of Rs. 700.

CHAPTER IV.

YIELD AND WORKING.

Departmental Operations.

Teak extraction by Government.

46. During the year 73,479 teak logs were extracted by Government agency as follows:

Division.	Number of logs extracted during the year.	Local disposals.	Sent to Rangoon.	Arrived at Rangoon.	Average. Rate per log paid to contractors.	Average. Cubic contents per log.
					Rs. A. P.	
Thayetmyo ...	952	461	448	448	12 9 9	45
Prome ...	2,205	779	1,412	1,412	10 4 8	50
Tharrawaddy ...	16,887	...	16,887	16,645	9 6 9	50
Rangoon ...	5,806	15	5,791	5,861	10 4 7	52
Toungoo ...	7,311	88	7,223	8,137	17 8 0	51
Shwegyin ...	1,316	678	558	557	...	48
Western ...	307	292	...	...	..	88
	34,784	2,313	32,269	33,060	..	...
	Refuse and small logs.					
Prome ...	147	99		.	3 3 1	33
Tharrawaddy ...	38,598	34,886	...	...	3 1 0	19
	73,479	37,248	...	...		...

The exceedingly favourable floating season accounts for the increased outturn of large logs, the total neaped logs being under 5,000, the largest proportion being in the Shwelè stream as explained in paragraph 44.

Extraction of other woods departmentally.

47. Of the other kinds of wood extracted departmentally thitka 10 logs, pyinkado 67 logs, and petwun 38 logs, were delivered to the Central Jail, Rangoon; 69 tons of pyinma were worked out of the Shwegyin division and sold locally at a profit of Rs. 6 per ton; and 200 thitto logs (161 tons) were made over to the Bassein Jail by the Western division.

Liabilities of contractors.

48. The outstandings against contractors at the end of the year amounted to Rs. 28,533, being Rs. 14,980 less than at the close of 1888-89:

				Rs.
Thayetmyo division	...	...	...	175
Prome division	...	...	...	826
Tharrawaddy division	...	...	...	18,254
Toungoo division	...	...	...	9,133
Western division	...	...	...	145
		Total	...	28,533

Rangoon and Shwegyin divisions have no outstandings; those in the Thayetmyo, Prome, and Western divisions are insignificant. An item of Rs. 5,748 in the Tharrawaddy division against a contractor, Maung Pe Gyi, who failed to

get his timber out from the Minbu stream, is the only doubtful charge. With a favourable floating season, he should next year reduce this debt to less than the value of his mortgaged elephant. The Toungoo outstandings are covered by mortgages and work done.

2.—Removal of Produce by Purchasers.

(a) Timber.

Extraction of teak by purchasers.

49. The quantity of teak extracted by purchasers shows the very large increase compared with last year of 680,000 cubic feet. This is in consequence of a contract having been given to work several of the Toungoo forests upon conditions similar to those granted to the late forest lessees in Upper Burma with this exception, that payment is made by the contractors at a rate of Rs. 21 per ton all round instead of Rs. 10 and Rs. 6 (the rate for the Pyinmana forests, Upper Burma, which adjoin the Toungoo forests). One thousand five hundred trees girdled in the Kun forests instead of being extracted departmentally were also worked out under sale contract at a rate of Rs. 22-8-0 per ton all round. It is roughly estimated 198,200 cubic feet were extracted from reserves.

Reserved woods from reserved forests.

50. From reserves in the Tharrawaddy division 666 cubic feet of pyinma and 619 cubic feet of thingan were extracted by purchasers. From the Kyunchaung, Rangoon division, 400 cubic feet thingan were brought out.

Unreserved woods from reserved forests.

51. The following statement shows the number of logs of the unreserved kinds worked out of reserves :—

Division.	Reserve.	Pyinkado.	In.	Thayet.	Ingyin.	Thitya.	Petwun.	Cutch.	Charcoal.	Revenue.
		Logs.	Logs.	Logs.	Logs.	Logs.	Logs.	Logs.	Baskets.	Rs.
PROME	Tônyè ...	...	892	...	...	...	...	...	...	1,884
	Chaungzauk ...	...	...	...	...	...	...	342	...	204
THARRAWADDY	Satpôk ...	460	...	...	...	...	...	...	...	575
	Nyaulè ...	...	...	...	...	...	...	1,845	...	1,946
	Thakolau ...	90	..	...	...	...	...	...	...	121
	Bwet ...	...	...	...	...	...	...	615	...	156
	Tayôkmaw ...	...	183	...	...	...	...	...	...	383
	Minhla ...	...	...	...	...	...	...	78	...	78
	Gwedauksan ...	5	...	...	...	...	...	...	...	6
RANGOON	Thabyu ...	1,790	2,079	400	33	75	8	...	1,000	10,693
	Thitpyat ...	100	300	...	30	...	...	...	750	895
	Kyunchaung ...	50	95	300	25	...	...	...	...	1,110
	Hmawbi ...	500	...	...	...	...	...	...	...	1,500
	Wanetchaung ...	...	50	...	...	..	...	...	...	150
	South Zamayi ...	300	...	...	...	...	...	...	...	300
	Total ...	3,295	3,049	700	88	75	8	2,880	1,750	19,951

Reserved woods from unreserved forests

52. The extraction of the reserved kinds of woods from forests outside reserved forests and revenue realized may be gathered from the following table :—

Division	Teak.	Pyinma.	Thingan and kaung-hmu	Kanyin	Thitkado.	Thitka	Revenue
	C. Ft	C. Ft.	C Ft	C. Ft.	C Ft	C. Ft	Rs
Thayetmyo	10,090		...	...	...	...	8,385
Prome .. .	28,400		..	..	..	...	5,250
Thatrawaddy .	25,810	2,599	1,550	50	...	...	5,851
Rangoon	50	2,874	900	2,621	..	155	1,148
Toungoo	396,996	8,000	17,055	.	..	25	1,69,088
Shwegyin .	92,780	6,386	7,892	9,399	878	500	89,744
Western	2,780	6,459	1,975	4,850	681	5,845	7,615
Total ...	556,906	21,318	29,352	16,920	1,054	6,525	2,31,521

There was a falling off in the quantity of kanyin removed in the Shwegyin division. This timber is becoming scarce in easily accessible forests.

Unreserved woods from unreserved forests.

53. The following table gives the number of logs of and revenue realized upon woods of the unreserved kinds according to divisions :— .

Division.	Dugyis and Ilwa-gas	Yatthits.	Posts.	Poles	Revenue
					Rs.
Thayetmyo . ..	8,366	15,688	18,546	13,750	18,197
Prome	1 881	5,198	2,468	6,900	7,078
Thatrawaddy ...	4,206	6,217	636	190	11,866
Rangoon ...	2 866	4,058	4,012	...	7,626
Toungoo	7,915	2,006	786	12,180	13,470
Shwegyin	8,140	3,878	3,978	800	15,458
Western	14,124	17,555	58,628	567,754	43,818
Agency	...	.	521	5,305	146
Total ...	42,498	54,595	89,575	606,829	1,17,659

The Western division shows an increase of nearly 25 per cent. upon last year and credit is due to the Divisional Officer for the way he has worked up the revenue. The collections in the Arakan division only amounted to Rs. 1,841.

(b) *Minor Forest Produce.*

Minor forest produce from reserved forests.

54. The collections for minor forest produce from reserved forests amounted Rs. 95,604, of which Rs. 88,782 were derived from cutch extracted from reserves in the Tharrawaddy division. Further details are given below.

Division.	Cutch.	Bamboos.	Shaw fibre.	Grazing.	Cigar-leaves.	Laterite and limestone.	Wood-oil.	Thatch and salut.	Canes.	Honey.	Fuel.	Miscellaneous.	Total revenue.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Thayetmyo...	...	27	...	...	...	...	..	...	...	...	..	40	67
Promo ...	..	17	75	...	...	...	...	2	...	...	...	5	99
Tharrawaddy	88,782	2,679	153	95	145	...	35	23	2	5	..	88	91,987
Rangoon ...	..	2,422	214	124	4	2	...	18	26	...	125	150	3,085
Toungoo ...	...	252	6		...	...	20	...	74	..	...	..	352
Shwegyin ...	...	14	...	...	...	...	...	...	...	...	...	...	14
Western ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	88,782	5,411	428	219	149	2	55	43	102	5	125	283	95,604

Minor forest produce from unreserved forests.

55. Minor produce from unreserved forests yielded a revenue of Rs. 92,248, being a decrease of Rs. 41,859 entirely upon cutch. The only forests where cutch is still obtainable are those added to the Thayetmyo division and which formed part of Upper Burma. A further decrease may be expected next year. The following statement gives particulars :—

Division.	Cutch.	Charcoal.	Fuel.	Resin.	Wood-oil and thitsi.	Bark.	Total revenue.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Thayetmyo	56,115	58	...	80	...	...	56,253
Promé	6,100	116	...	208	...	..	6,424
Tharrawaddy ...	1,269	118	75	...	104	...	1,557
Rangoon	...	637	1	...	62	6	706
Toungoo	860	153	.	2	678	...	1,693
Shwegyin	...	487	...	...	420	...	907
Western	1,860	98	...	...	16	...	1,974
Agency	...		22,734	...	...	...	22,734
Total ...	66,195	1,667	22,810	290	1,280	6	92,248

3.—*Free Grants.*

Free grants of timber.

56. Free grants to the extent of 3,250 cubic feet of teak and 5,250 cubic feet of other reserved woods for religious and useful purposes were issued by Commissioners of Divisions and the Conservator.

4.—*Summary of Outturn*

57 The outturn of timber and fuel is shown approximately in the following statement :—

Outturn from all divisions

How extracted.	Teak	Other reserved woods	Unreserved woods	Fuel	Bamboos
	C Ft	C Ft	C Ft	C Ft	No
By Government agency	2,470,800	8 640	14,070	50	
By purchasers	750,110	76,470	5,118,490	617,819	2,165 025
By right holders					57,480
Under free grants	3,250	5,250	1 650		
Total	3,224 160	90,360	5,129,210	617,869	2,222,505

With the exception of other reserved woods than teak the year's outturn shows an increase under all heads The decrease upon reserved woods is owing to the department having worked out no pyinma this year.

5.—*Drift Operations*

58. The following table gives the result of the drift timber operations :—

Collection of drift timber

Division	Balance, 1888 89.	Collected during 1889 90.	Returned to claimants	Sold or transferred to Government	Drifted or used departmentally	Transferred to other depôts	Balance
	Rs	Rs	Rs.	Rs	Rs	Rs	Rs
Thayetmyo		887	799	12			76
Prome	115	845	654	90		148	68
Tharrawaddy		106				106	
Rangoon		700				700	...
Toungoo		7,651	7,437	58			156
Shwegyin	142	8,941	8 679				203
Western	404	856	801	249			210
Agency	58	1,639	1 349	75			273
Total	719	16 625	14 719	484		954	986

6.—*Girdling*

59. The teak girdlings in unreserved forests were as follows :

Teak girdlings

Thayetmyo division, Kama range		666
Prome division, Nawin range		500
Toungoo division	Thagaya range	2 121
	Zeyawadi range	3,000
	Bônmadi range	2,000
Shwegyin division, Baingda range.		600
Western division, Myanaung range		1 002
	Total	9 889

In reserved forests the following girdlings took place :—

Tharrawaddy division	Thônze block	964
	Kôn Bilin	250
	Kadin Bilin	1,006
	Môkka	434
	Minhla	737
	Gamôn	1,541
Rangoon division	Kadat reserve	502
	Zamayi reserve	500
Toungoo division	Kyaukmasin reserve	2 374
	Saing Yanè reserve	520
	Total	8,831

The girdlings in the Tharrawaddy division were conducted in accordance with the sanctioned plans and the others under equally careful supervision.

7.—*Disposals and Sale Depôts.*

Local sales.

60. In the Thayetmyo division 695 teak logs (10,598 cubic feet) were sold locally for Rs. 4,321-10-8. The local sales of inferior and drift teak in the Prome division realized Rs. 4,360-10-9 and Rs. 14 were obtained from the sale of 14 small cutch trees. The sales in the Thartawaddy division were confined to paddy-field teak and 34,836 logs were sold. The profit and loss-account in this transaction during the year stands as follows:

Particulars.	Amount.	Particulars.	Amount.
Rs. A. P.	Rs. A. P.		Rs. A. P.
Stock in hand 1st April 1889— 11,840 logs at Rs. 5 each ... 59,200 0 0		Sales 34,836 logs	2,05,888 11 5
Less deposit ... 1,699 5 0	57,500 11 0	Deposit on logs not yet delivered Rs. A. P. 15,602 logs at Rs. 5 each ... 78,010 0 0	23,842 11 0
Delivery of 38,598 logs ...	1,18,160 5 0	Less deposit ... 25,542 0 0	52,468 0 0
Establishment, say	750 0 0		
Depôt expenses	190 8 0		
Depôt rent ...	259 4 0		
Total ...	1,76,860 12 0		
Profit ...	1,04,788 10 5		
GRAND TOTAL ...	2,81,649 6 5	GRAND TOTAL ...	2,81,649 6 5

In the Rangoon division only 15 logs were disposed of locally at Pegu. One hundred and forty-six teak logs, including unclaimed and waif logs, 5,547 cubic feet in all, were sold at Toungoo for Rs. 2,869-11-3. In the Shwegyin division 120 teak (4,907 cubic feet) logs were sold for Rs. 2,723 and 45 logs pyinma (1,705 cubic feet) realized Rs. 409-5-3. The local sales in the Western division were 292 teak logs (9,980 cubic feet), 73 pyinkado logs (2,058 cubic feet), 17 thabye (473 cubic feet), and 200 thitto logs (8,059 cubic feet).

Timber depôt at Rangoon.

61. The transactions at the Rangoon Central Depôt are shown in the following table:—

Description.	Balance on 1st April 1889.		Arrivals during the year.		Sales and disposals during the year.		Balance on 31st March 1890.	
	Logs.	Cubic feet.	Logs.	Cubic feet.	Logs.	Cubic feet.	Logs.	Cubic feet.
Teak	19,091	926,844	33,059	1,756,946	27,179	1,366,944	26,603	1,315,746
Teak, drift	44	...	1,632		2*	...	42*	...
Woods of other kinds...	4	168	10	432	13	408	4	197
Drift woods of other kinds.	...	...	7		4		...	...

*Sleepers.

The arrivals of teak during the year exceeded the previous one by 269,946 cubic feet and the balance on hand was 389,402 cubic feet in excess of the closing balance in 1888-89.

Summary of sales from the Rangoon depôt.

62. The sales of Government teak at the Rangoon depôt amounted to Rs. 13,71,251-3-6, being an average of Rs. 52-15-10 per ton, or an increase of Rs. 3-2-6.

Stock of timber at depôt at close of year.

63. The balance on hand at the Government depôt consists of 211 I class and 26,392 II class logs, and 42 sleepers. In consideration of the great fall in the price of teak in the market the value may be taken at Rs. 30 per ton and amounts to Rs. 7,89,480, or Rs. 1,15,480 in favour of the year.

CHAPTER V.

Export of Timber.

Exports of timber, &c., from Rangoon.

64. The quantity of teak exported from Rangoon during the year amounted to 103,560 tons valued at Rs. 81,84,843, or Rs. 79-0-6 per ton, being an increase of 40,591 tons and Rs. 32,85,296 respectively. The greater quantity was exported to the United Kingdom and Bombay.

Exports of other timber than teak also increased from 182 to 529¼ tons, chiefly pyinkadò sleepers.

Cutch exports show a marked decrease of 100,322 cwt, nearly one-third, and the quantity of stick-lac also decreased from 3,790 cwt. to 2,244 cwt. Further details are furnished in Appendix C.

CHAPTER VI.

Financial Results.

Financial results of the year's working.

65. The revenue and expenditure of the year under review amount to—

		Rs.	Rs.
Revenue ...	...	...	24,01,158
Expenditure ...	...	A 6,97,637 B 2,07,635	9,05,272
		Surplus	14,95,886

The forest share of the survey party, estimated at Rs. 54,298, is not included in the expenditure.

Comparison with previous years.

66. The figures of the previous three years compare as follows:

	Revenue.	Expenditure.	Surplus.
	Rs.	Rs.	Rs.
1886-87	14,97,355	6,55,174	8,42,181
1887-88	16,75,094	7,03,830	9,71,774
1888-89	19,39,488	8,06,199	11,33,290
1889-90	24,01,158	9,05,072	14,95,886

Detailed comparison with previous year.

67. From timber extracted by Government agency Rs. 16,72,712 compared with Rs. 15,06,247 in 1888-89 were realized, while the expenditure incurred amounted to Rs. 5,32,421 as against Rs. 4,74,583, the net result being in favour of the year by Rs. 1,08,627.

Timber and forest produce worked out by purchasers yielded Rs. 6,46,307 against Rs. 3,63,516 and the expenditure amounted to Rs. 8,663 against Rs. 7,899. The increased revenue was chiefly derived from the teak worked out under the sale contracts in the Toungoo and Shwegyin divisions. The duty upon Rangoon firewood also shows a satisfactory increase. The cutch and minor produce collections increased by nearly Rs. 10,000. Rs. 52,580 was obtained from cutch sold from reserves in the Tharrawaddy division to teak ya cultivators. The duty for cutch licenses outside reserves shows a falling-off of Rs. 47,235.

The receipts and payments upon collection of drift, which can never be accurately estimated, show an increase of Rs. 6,673 and Rs. 5,363 respectively, or a net increase of Rs. 1,311. Heavy floods at the close of the rainy season account for this.

The revenue and expenditure under miscellaneous collections show a result in favour of the year of Rs. 14,016. Four elephants were purchased during the year for the Working Plans at a cost of Rs. 4,900, which explains the increased outlay upon stock and stores, the figures standing Rs. 24,385 for the year against Rs. 20,298 in 1888-89.

The outlay upon communications and buildings exceeded that of the previous year by Rs. 1,044. The remetalling of the road to the Government timber depôt at Rangoon, which cost Rs. 3,141, accounts for this.

The expenditure upon demarcation and improvement of forests amounted to Rs. 78,400 against Rs. 61,824 last year.

The cost of establishments amounted to Rs. 2,07,635, or an increase of Rs. 12,247, of which Rs. 9,107 went in the pay of superior officers. The Conservator officiated in a higher grade and the staff was increased by two juniors from home. The pay of office and forest establishments remained about the same. The disbursements for travelling increased under all heads. Contingent charges amounted to Rs. 7,950, or a slight increase of Rs. 75.

Revenue and expenditure according to divisions.

68. The following statement shows the revenue and expenditure for the year of each division :—

Division.	Revenue.			Expenditure.	Surplus.
	Local collections.	Agency collections.	Total.		
	Rs.	Rs.	Rs.	Rs.	Rs.
Thayetmyo	87,071	81	87,152	47,248	39,904
Prome	29,727	41,929	71,656	40,896	30,760
Tharrawaddy	3,51,159	7,03,282	10,54,441	4,10,639	6,43,802
Rangoon	31,416	2,95,511	3,26,927	1,39,123	1,87,804
Toungoo	2,91,996	3,87,285	6,79,281	1,91,746	4,87,535
Shwegyin	75,252	2,857	78,109	35,297	42,812
Western	68,978	1,725	70,703	35,582	35,121
Agency	...	32,889	32,889	4,742	28,147
Total ...	9,35,599	14,65,559	24,01,158	9,05,273	14,95,885

69. The usual comparison of receipts and charges with those of the last two years is as follows :

Summary of receipts and charges.

	Receipts.			Charges.			Surplus or Deficit.					
	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.		1888-89.		1889-90.	
							Surplus.	Deficit.	Surplus.	Deficit.	Surplus.	Deficit.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Departmental timber operations.	13,05,807	15,60,954	17,34,072	5,34,259	6,06,050	6,77,218	7,71,548	...	9,54,904	...	10,56,854	...
II.—Other revenue	3,09,287	3,78,529	6,67,086	65,868	70,417	76,203	3,03,380	...	3,08,112	...	5,90,883	...
III.—Formation and improvement.	...	...	...	1,03,163	1,29,726	1,51,852	...	1,03,163	...	1,29,726	...	1,51,852
Total ...	16,75,094	19,39,483	24,01,158	7,03,290	8,06,193	9,05,273	9,71,774	...	11,33,290	...	14,95,885	...

CHAPTER VII.

General.

Teak market in Europe.

70. Up to the end of September the home market was fair and average cargoes realized £13 per ton; in November it declined; cargoes were only nominally worth £11-10-0 to £12, and since then it has fallen to £9. Excess shipments from Burma and Bangkok (much of the latter being of inferior quality), and the lull in the

ship-building trade account for the fall, and there seems little probability of any appreciable rise.

Indian teak market.

71. Up to the end of December 1889 cargoes fetched in Bombay a f.o.b. return of Rs. 50 to Rs. 70 according to quality; since then the market has fallen from Rs. 40 to Rs. 50. The rates at Madras have been about the same. In Calcutta, for retail transactions, the ruling rate has been from Rs. 10 to Rs. 15 per ton higher than Bombay.

Cutch adulteration.

72. The reservation of "than" and the scarcity of cutch trees have caused boilers to go in for decoctions of many other trees, lein, panga, taukkyan, tè, &c., which they mix in large quantities with the cutch. Some of these have been in use for years locally for dyeing fishing nets, &c., and probably may be found as useful as cutch if the manufactured decoction can be solidified.

Elephants.

73. The year opened with 33 elephants. Four were purchased in Toungoo for the Working Plans. There have been no casualties. The average monthly cost per animal was Rs. 37-15-7.

Launch *Forester*.

74. The launch was employed 58 days, or 470 hours under steam, and her earnings amounted to Rs. 219-9-7 against an expenditure of Rs. 3,115-7-7, of which Rs. 1,052 were for repairs in dock.

Indents for seed.

75. The following indents for seed were complied with:—

80lbs. teak seed for Gunga Din Sirdar, G. I. P. Railway, Central Provinces.
120lbs. teak seed for Messrs. Foucar Brothers, Rangoon.

Controlling staff.

76. The writer of the report held charge of the circle during the year. The working season has been the most unhealthy one he has known, and nearly every officer has been prostrated. Notwithstanding this gazetted officers have worked well and the Conservator is glad to record his appreciation of their services.

Executive staff.

77. The work of the subordinate staff generally has by no means been satisfactory; sickness may to a slight degree account for this. Ranger Maung Yaing, Forester Maung Byaung, and of the temporary establishment Overseer Mr. P. Healy have worked hard and well. Ranger Maung Pe deserves commendation for the successful fire-protection of Magayi.

Office and Agency.

78. The Conservator regrets exceedingly to have to record the loss by death of Mr. A. M. Buchanan, late Superintendent of his office. He had held this post for years and in spite of ill-health stuck to it until unable to reach office. Mr. Allmark, upon whom much extra work has devolved, has earned the thanks of the Conservator. With the exception of Tharrawaddy, office establishments have worked well.

RANGOON:
The 26th July 1890.

E. P. POPERT,
Conservator of Forests, Pegu Circle.

APPENDICES.

ANNUAL FORM NO. 49 [PRESCRIBED].—*Area of Reserved Forests in the Tenasserim and Pegu Circles for the year 1889-90:*

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1889. Acres.	Area on 1st April 1889. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1890. Acres.	Area on 31st March 1890. Equivalent in square miles.	No. and date of notification of addition or transfer.	Remarks.
West Salween ...	West Salween.	Salween	Wamuchaung	1,920	3	...	...	1,920	3		
			Sinzwè	8,960	14	...	...	8,960	14		
			Kahilu	9,600	15	...	...	9,600	15		
			Minnanwè	3,840	6	...	...	3,840	6		
			Mèwaing	7,360	12	...	...	7,360	12		
			Upper Mèthalauk ...	8,960	14	...	...	8,960	14		
			Lower Mèthalauk ...	3,840	6	...	...	3,840	6		
		Shwegyin	Bilakatkyi	8,320	13	...	...	8,320	13		
			Onkangyi	8,320	13	...	...	8,320	13		
		Amherst	Tagalaung	5,120	8	...	...	5,120	8		
		Salween	Pachaung	25,600	40	...	...	25,600	40		
East Salween ...	East Salween.	Amherst	Dagwin	6,400	10	...	...	6,400	10		
			Kamawkala	5,760	9	...	...	5,760	9		
			East Mèpalè	38,400	60	...	...	38,400	60		
			Methapè	17,280	27	...	...	17,280	27		
			Mepalè	25,600	40	...	...	25,600	40		
			Kyaukket	12,160	19	...	...	12,160	19		
			Mègala	6,400	10	...	...	6,400	10		
			Winsaw	6,400	10	...	...	6,400	10		
			Mithawè	12,160	19	...	...	12,160	19		
			South Myawaddi ...	150	...	...	...	150	...		
			Onkaraung	33,920	53	...	...	33,920	53		
			Gawlè	37,120	58	...	...	37,120	58		
			Baledo	1,600	2	...	...	1,600	2		
Ataran ...	Ataran ...	Amherst	Dali	7,680	12	...	...	7,680	12		
			Pakebo	20,480	32	...	...	20,480	32		
			Natchaung	5,760	9	...	...	5,760	9		
			Gèngyi	27,520	43	...	...	27,520	43		
			Ma-u	8,960	14	...	...	8,960	14		
			Megwa	12,160	19	...	...	12,160	19		
			Thinganyinaung ...	5,760	9	...	...	5,760	9		
			Kyunchaung	10,880	17	...	...	10,880	17		
			Yè	202,880	317	...	...	202,880	317		
South Tenasserim.	Tavoy ...	Tavoy	Mintha	64,000	100	...	...	64,000	100		
	Mergui ...	Mergui	Kaleinaung	294,400	460	...	...	294,400	460	.....	Includes Karen area of 12 square miles.
			Ngawunchaung ...	192,000	300	...	...	192,000	300		
Kado ...	Kado ...	Shwegyin ...	Kyakatchaung	...	...	11,520	...	11,520	18	Notification No. 89, dated 4th July 1889.	
			Total Tenasserim Circle...	1,147,670	1,793	11,520	...	1,159,190	1,811		
			A.—Classed State Forests and Waste Lands. (a) *Reserved Forests.*								
Thayetmyo ...	Myedè ...	Thayetmyo	Tindaw	...	...	2,880	...	2,880	5		
			Satsuwa	...	...	4,800	...	4,800	7		
			Thayetmyo, East Yoma ...	...	...	71,680	...	71,680	112		
	Kama ...	Ditto	Saingdo	...	...	1,216	...	1,216	2	.....	Transferred from the Prome division.
			Thabala	...	...	6,080	...	6,080	9		
			Mindôn Yoma	...	...	166,400	...	166,400	260		
			Ngawet	...	...	3,200	...	3,200	5		
			Total Thayetmyo division ...	...	...	256,256	...	256,256	400		

Prome	Myedè	Thayetmyo	Tindaw	2,890	5	...	2,890	...	...		
			Satsuwa	4,800	7	...	4,800	...	...		
			Thayetmyo, East Yoma	71,680	112	...	71,680	...	...		
	Kama	Ditto	Saingdo	1,216	2	...	1,216	...	...		
			Thabala	6,080	9	...	6,080	...	...	.....	Transferred to the Thayetmyo division.
			Mindôn Yoma	166,400	260	...	166,400	...	...		
			Ngawet	3,200	5	...	3,200	...	...		
			Total Thayetmyo	256,256	400	...	256,256	...	...		
	Nawin	Prome	Thitkat and Ayodaung	2,944	5	...	...	2,944	5		
			Thayetchaung and Nyaungbindet.	4,864	8	422*	...	5,286	8		
			Kywemido	2,442	4	...	...	2,442	4		
			Nobebyu	3,840	6	...	...	3,840	6		
			Shwelaung and Pwegyin	13,120	21	...	...	13,120	21		
			Gwegyo	6,720	10	...	...	6,720	10		
			Chaungzauk	9,408	15	...	...	9,408	15		
			Ngaluzan	700				700			
			Shwekyundaw	256	2	...	...	256	2		
			Prome, plantation	73				73			
			Prome East Yoma.	97,600	152	...	...	97,600	152		
			Tônye fuel reserve	12,224	19	1,401*	...	13,625	21		
			Pauktaw fuel reserve	4,672	7	...	116*	4,556	7		
			Sinmizwe fuel reserve	6,400	10	819*	...	7,219	11		
			Total Prome division	421,519	659	2,642	256,372	167,789	262		
			Karen areas	27,590	43	...	...	27,590	43		
			Total area free of taungya privileges.	393,999	616	2,642	256,372	140,259	219		
Tharrawaddy	Shwele	Prome and Tharrawaddy.	Tarôkmaw and Inma	24,576	38	...	...	24,576	38		
			Shwele Yoma	33,600	52	1,875*	...	35,475	56	.....	Includes Karen area of 12 square miles.
			Dawlè	1,800	3	...	...	1,800	3		
			Kyaukkyitaung	2,600	4	...	...	2,600	4		
			Padetmyaung	4,500	7	...	...	4,500	7		
			Gwedaukkwin	10,200	16	1,294*	...	11,494	16		
			Kyibyu	2,200	3	...	...	2,200	3		
			Shabaung	2,200	3	...	...	2,200	3		
			Kadinzauk and Kadin thôaziu.	3,500	6	...	...	3,500	6		
			Bwet	2,900	5	...	...	2,900	5		
			Upper Padinbin	600	1	...	24*	576	1		
			Lower Padinbin	200	...	254*	...	454	1		
			Tapan	...	...	1,007*	...	108	...		
	Bawbin	Tharrawaddy	Tapau	4,260	7	...	...	5,159	8		
			Taungnyo Yoma	88,320	138	2,478*	...	95,378	149		
			Kanui	595	1	...	...	595	1	.....	Includes Karen area of 44·02 square miles.
			Nyanlè	4,518	7	...	6†	4,512	7		
			Pazingyi	1,325	2	...	...	1,325	2		
			Taungnyomyo	4,780	8	...	...	...	...	.....	Included in Taungnyo Yoma by Survey Department.
			Minbu	14,008	22	...	...	14,003	22		
			Upper Payagyi	704	1	...	3*	701	1		
			Lower Payagyi	307	...	...	...	307	...		
			Bawbin	65,594	102	...	...	65,594	102		
			Gwedaukan	1,222	2	...	...	1,222	2		
			Chaunggwa	1,504	2	...	...	1,504	2		
			Thitcho	2,970	5	...	...	2,970	5		
			Kangyi	4,896	8	...	...	4,896	8		
			Myodwin	38	...	...	...	38	...		
			Chaungzauk	3,454	5	...	...	3,454	5		
			Carried forward	287,366	448	6,902	33	294,241	458		

* By alterations consequent on accurate survey. † By rectification of previous figures.

ANNUAL FORM NO. 49 [PRESCRIBED].—*Area of Reserved Forests in the Tenasserim and Pegu Circles for the year 1889-90*—concluded.

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1889.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1890.		No. and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
			Brought forward ...	287,366	448	6,908	33	294,241	458		
THARRAWADDY—*concld.*	Gamôn ...	Tharrawaddy	Gamôn	47,757	75	...	...	47,757	75	...	Includes Karen area of 29·31 square miles.
			Taung	14,016	22	...	...	14,016	22	...	Includes Karen area of 6·43 square miles.
			Minbla	25,453	40	...	...	25,453	40	...	Includes Karen area of 6·43 square miles.
			Taukkyan	3,138	5	...	...	3,138	5		
			Thakolen	1,134	2	...	...	1,134	2		
			Chaungnagôn	350	1	...	...	350	1		
			Satpâk	5,276	8	...	...	5,276	8		
			Môkka	22,406	35	...	...	22,406	35	...	Includes Karen area of 10·28 square miles.
	Bilin ...		Kadin-Bilin	53,363	83	...	...	53,363	83	...	Includes Karen area of 22·33 square miles.
			Kôn-Bilin	15,987	25	...	...	15,987	25		
			Thônzé	69,734	109	...	...	69,734	109	...	Includes Karen area of 14·80 square miles.
			Sitkwin	3,080	5	...	243	2,837	4		
			Thindawyoe	6,551	10	...	...	6,551	10		
			Total Tharrawaddy division	555,611	868	6,908	276	562,243	877		
			Karen areas ...	112,043	175	5,243	...	117,286	183		
			Total area free of taungya privileges.	443,568	693	1,389	...	444,957	694		
RANGOON ...	Paunglin	Hanthawaddy ...	Kyetpyugan	940	2	...	...	940	2		
	Kinbadi	Ditto	Magayi	12,800	20	...	...	12,800	20		
			Okkan	80,000	125	...	...	80,000	125	...	Includes Karen area of 13 square miles.
	Hlaing ...	Ditto ...	Hlaing Yoma	59,520	93	...	...	59,520	93		
			Total ...	153,260	240	...	...	153,260	240		
			Fuel reserves.								
	Hlaing	Hanthawaddy	Hmawbi	1,846	3	...	...	1,846	3		
			Kyun	8,440	13	...	...	8,440	13		
			Thitpyat	1,280	2	...	...	1,280	2		
			Thabyu	8,000	13	...	...	8,000	13		
			Wanetchaung	4,750	7	...	...	4,750	7		
			Total ...	24,316	38	...	...	24,316	38		
		Tharrawaddy ...	Upper Zamayi ...	145,920	228	...	...	145,920	228	...	Includes Karen area of 88·5 square miles.
	Pegu ...	Pegu	Lower Zamayi	112,000	175	...	...	112,000	175	...	Includes Karen area of 18·5 square miles.
			Kadat	64,000	100	...	...	64,000	100		
			Letpan	10,880	17	...	...	10,880	17		
			Paunglin	68,480	107	...	...	68,480	107	...	Includes Karen area of 7 square miles.
			South Zamayi extension ...	1,280	2	...	...	1,280	2		
			Total ...	256,640	401	...	...	256,640	401		
			Total Rangoon division ...	580,136	907	...	...	580,136	907		
			Karen areas ...	81,280	127	...	...	81,280	127		
			Area free of taungya privileges.	498,856	780	...	...	498,856	780		

TOUNGOO	Thagaya	Toungoo	Saung Yanè	70,440	110			70 440	110	
			East Swa	17,280	27			17,280	27	
			West Swa	38 400	60			38,400	60	
			Lobyan	10,880	17			10,880	17	
			Sabyin	26,240	41			26 240	41	
			Kyaukmasin	20 480	32			20 480	32	
			Gwethè	33,280	52			33 280	52	
			Myohla	12,160	19			12,160	19	
	Zeyawadi	Ditto	Bondaung	25 600	40			25 600	40	
			Kabaung	220 800	345			220 800	345	Includes Karen area of 6·5 square miles
	Bônmadi	Ditto	Pyachaung			59 520		59 520	93	Notification No 1-8F., dated 21st October 1889
			Kanni	280				280		Includes Karen area of 30 square miles
			Pyunchaung	3 400	5			3,400	5	
			Gônwè	6 400	10			6 400	10	
	Kyathaung daung	Ditto	Thandaung	12 025	19			12 025	19	
			Total Toungoo division	427 865	777	59,520		557,185	870	
			Karen areas	41 920	65			41,920	65	
			Total area free of taungya privileges.	455,745	712	59 520		515 265	805	
SHWEGYIN	Shwegyin	Sittang	Kyundaung	960	1			960	1	
			Kyundaung extension	3,840	6			3,840	6	
	Kyaukkyi	Ditto	Banbyè	6,400	10			6 400	10	
	Bawni	Ditto	Upper Kanyinmyaung	8,320	13			8 320	13	
			Lower Kanyinmyaung	28,800	45			28,800	45	
			Tongan	20 480	32			20,480	32	
			Yenwè			160 000		160 000	250	No. 121 (Forests) dated 26th August 1889
			Nyabwa			56,320		56,320	88	No 129 (Forests) dated 28th August 1889
			Total Shwegyin division	68,800	107	216 320		285,120	445	
PEGU CIRCLE TOTAL.		(a) Area free of taungya privileges		1,860 068	2 908	536 403	256,648	2 140 723	3,344	
		(b) Karen areas		262 763	410	5 243		268,006	418	
		(c) Area of (a) (b)		2,123 731	3 318	541 646	256,648	2,408,729	3,762	
TENASSERIM CIRCLE TOTAL		(a) Area free of taungya privileges		1,139 990	1 781	11,520		1,151 510	1 799	
		(b) Karen areas		7 680	12			7 680	12	
		(c) Area of (a) (b)		1,147 670	1 793	11,520		1 159,190	1 811	
GRAND TOTAL LOWER BURMA.		(a) Area free of taungya privileges		3 000 958	4 689	547 923	256,648	3,292,233	5,143	
		(b) Karen areas		270 443	422	5,243		2 5,686	430	
		(c) Area of (a) (b)		3,271 401	5,111	553 166	256,648	3,567,919	5 573	

ANNUAL FORM NO. 50 [PRESCRIBED].—*Prosecutions for Breaches of Forest Rules in the Tenasserim Circle for the year 1889-90.*

Forest division and civil district.	Cases pending from 1888-89.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.	Remarks.
		Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.			
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		
Attaran division, Amherst district — a	...	...	8	...	...	8	8	3	3	5	5	8	8	...	
b	...	...	17	...	...	17	17	17	17	...	...	17	17	...	
c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	25	...	...	25	25	20	20	5	5	25	25	...	
East Salween division, Amherst district — a	...	...	1	...	...	1	1	1	1	...	...	1	1	...	
b	...	...	8	...	...	8	8	8	8	...	...	8	8	...	
c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	9	...	...	9	9	9	9	...	...	9	9	...	
West Salween division, Amherst district — a	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
b	...	...	2	...	...	2	2	2	2	...	...	2	2	...	
c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	2	...	...	2	2	2	2	...	...	2	2	...	
Kado division, Moulmein Town, and Amherst district — a	...	...	1	...	177	178	178	175	217	3	3	178	220	...	
b	...	...	25	...	48	73	73	73	174	...	...	73	174	...	
c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	26	...	225	251	251	248	391	3	3	251	394	...	
South Tenasserim division, Tavoy district — a	...	...	...	...	1	1	1	1	2	...	...	1	2	...	
b	...	...	...	...	24	24	24	24	34	...	...	24	34	...	
c	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	...	...	25	25	25	25	36	...	...	25	36	...	
GRAND TOTAL TENASSERIM CIRCLE	...	...	63	...	250	312	312	304	458	8	8	312	466	...	

One hundred and twenty-four cases were compounded under Rule 66 of the Forest Rules. Rupees 5,998 were paid as compensation.

ANNUAL FORM NO. 50 [PRESCRIBED.]—*Prosecutions for Breaches of Forest Rules in the Pegu Circle for the year 1889-90.*

Forest division and civil district.		Cases pending from 1888-89.	New cases of the year. Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permit, or in areas in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	Disposed of during the year. Convictions. Cases.	Convictions. Persons.	Acquittals. Cases.	Acquittals. Persons.	Total. Cases.	Total. Persons.	Cases pending at close of year.	Remarks.
Tharrawaddy district	a	---	---	13	---	1	14	14	12	31	2	3	14	34	---	
	b	---	---	264	---	66	330	330	301	301	---	---	301	301	29	
	c	---	---	1	---	---	1	1	---	---	---	---	---	---	---	
Prome district	a	1	---	6	---	---	6	7	5	16	1	10	6	26	1	
	b	---	---	120	---	4	124	124	124	124	---	---	124	124	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total	a	1	---	19	---	1	20	21	17	47	3	13	20	60	1	
	b	---	---	384	---	70	454	454	425	425	---	---	425	425	29	
	c	---	---	1	---	---	1	1	---	---	---	---	---	---	---	
Shwegyin	a	---	---	1	---	---	1	1	1	1	---	---	1	1	---	
	b	---	---	8	---	---	8	8	8	10	---	---	8	10	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Toungoo	a	---	---	6	---	3	9	9	4	6	---	---	4	6	5	
	b	---	---	10	---	1	11	11	11	23	---	---	11	23	---	
	c	---	1	---	---	---	1	1	---	---	---	---	---	---	---	
Rangoon district	a	---	---	1	---	---	1	1	1	1	---	---	1	1	---	
	b	---	---	12	---	1	13	13	13	17	---	---	13	17	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Prome-Thayetmyo district	a	---	---	8	---	---	8	8	8	15	---	---	8	15	---	
	b	---	---	12	---	---	12	12	12	12	---	---	12	12	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Prome district	a	---	---	32	---	1	33	33	30	51	3	3	33	54	---	
	b	---	---	139	---	4	143	143	143	143	---	---	143	143	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Total	a	---	---	40	---	1	41	41	38	66	3	3	41	69	---	
	b	---	---	151	---	4	155	155	155	155	---	---	155	155	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Western — Bassein	a	---	---	8	---	1	9	9	9	34	---	14	9	48	---	
Henzada	a	---	---	9	---	---	9	9	8	8	1	1	9	9	---	
Ma-ubin	a	---	---	1	---	---	1	1	1	1	---	---	1	1	---	
Thôngwa	a	---	---	1	---	---	1	1	1	4	---	---	1	4	---	
Bassein	b	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Henzada	b	---	---	23	---	---	23	23	23	23	---	---	23	23	---	
Ma-ubin	b	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thôngwa	b	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Thayetmyo	a	---	---	60	---	1	61	61	57	57	4	4	61	61	---	
	b	---	---	137	---	3	140	140	140	165	---	---	140	165	---	
	c	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GRAND TOTAL, PEGU CIRCLE	a	1	---	146	---	7	153	154	137	235	11	35	148	260	6	
	b	---	---	725	---	79	804	804	775	817	---	---	775	817	29	
	c	---	1	1	---	---	2	2	---	---	---	---	---	---	---	
GRAND TOTAL, LOWER BURMA		1	1	933	---	336	1,270	1,271	1,215	1,498	19	43	1,234	1,541	35	

a. Cases prosecuted.
b. Cases compounded.
c. Cases undetected.

Seven hundred and seventy-five cases were compounded under Rule 66 of the Forest Rules. Rupees 8,568-8-2 were paid as compensation.

ANNUAL FORM NO. 51 [PRESCRIBED].—*Area of Forest Tracts protected from Fire during the dry season of 1889-90.*

Division.	Forest tract.	Year in which protection commenced.	Area actually protected up to 15th June 1889.	During dry season of 1890. Area attempted to be protected.	Failures.	Actually protected.	Cost during the season.	Remarks.
	Tenasserim Circle.		Acres.	Acres.	Acres.	Acres.	Rs.	
West Salween	Shpzwè	1871	8,960	8,960	...	8,960	1,927	
	Wamu	1871	1,920	1,920	...	1,920	173	
	Kahilu	1878	2,560	2,560	...	2,560	176	
	Mèwaing	1877	7,315	7,360	...	7,360	151	
	Minnannwè	1878	3,840	3,840	...	3,840	31	
	Ônkangyi	1877	6,260	6,300	25	6,275	113	
	Bilatkatyi	1877	3,286	6,656	...	6,656	106	
East Salween	Tagèlaung	1885	3,017	3,072	...	3,072	...	
	West Mèpalè	1881	25,600	25,600	...	25,600	1,890	
	Mathawè	1890	...	7,680	...	7,680		
Attaran	Kyunchaung	1890	10,380	7,600	...	7,600	390	
	Dali	1878	141	151	...	151	245	
	Natchaung	1883	...	1,800	...	1,800	70	
	Gèngyi	1889	17	17	...	17	25	
	Thinganpyinaung	1890	...	4	...	4	5	
	Total ...	...	73,318	83,520	25	83,495	5,311	

ANNUAL FORM NO. 51 [PRESCRIBED].—*Area of Forest Tracts protected from Fire during the dry season of 1889-90*—concluded.

Division.	Forest tract.	Year in which protection commenced.	Area actually protected up to 15th June 1890.	During dry season of 1890. Area attempted to be protected.	Failures.	Actually protected.	Cost during the season.	Remarks.
	Pegu Circle.		Acres.	Acres.	Acres.	Acres.	Rs.	
THAYETMYO	Tindaw	1890	.....	167	20	147	63	
PROME	Prome plantation	1857	.....	75	75	.....	19	
	Chaungzauk reserve	1879	5,722	6,400	12	6,388	752	
THARRAWADDY	Bwet	1877	2,790	7,976	213	7,763	1,180	
	Gwedaukkwin	1886	25	3,973	1,391	2,582	808	
	Kyaukyidaung	1866	1,100	2,150	769	1,381	704	
	Nyanlè	1877	4,398	4,518	253	4,265	940	
	Lower Payagyi	1868	418	3,408	.....	3,408	688	
	Bawbin	1869	1,496	1,500	3	1,497	376	
	Gwedauksan	1876	285	285	.....	285	92	
	Kangyi	1877	4,490	4,914	11	4,903	808	
	Myodwin	1869	39	40	2	38	42	
	Myaung	1876	1,550	1,860	194	1,666	330	
	Minhla	1876	9,900	4,144	21	4,123	270	
	Mókka	1876	537	540	.....	540		
	Mókka	1873	8,645	10,591	5	10,586	590	
	Kadin-Bilin	1873	7,268	7,326	92	7,234	425	
	Kôn-Bilin	1876	1,324	1,325	20	1,305	316	
	Thônzè	1876	2,128	2,135	.....	2,135	165	
RANGOON	Magayi plantation	1872	1,695	1,722	.....	1,722	2,325	
	Magayi reserve	1872	*2,044	1,645	.....	1,645		
	Kyetpyugan plantation	1868	683	683	.....	683	802	
	Kyetpyugan teak yas	1884	115	115	.....	115		
	Kyetpyugan reserve	1886	142	142	.....	142		
	Dawè plantation	1883	791	813	.....	813	150	
	Dawè reserve	1883	23,385	30,425	.....	30,425		
	Sinzwèchaung	1886	137*	163	.....	163	.....	
	Tedawchaung	1887	6*	150	.....	150	.....	
TCUNGOO	Saing-Yanè reserve	1877	19,200	25,600	.....	25,600	1,053	
	East Swa reserve	1883	13,760	17,280	.....	17,280	551	
	Bandaung reserve	1884	9,050	10,880	.....	10,880	425	
	Kabaung reserve	1881	2,560	2,560	3	2,557	179	
	Pyunchaung reserve	1877	1,694	8,440	.....	8,440	194	
SHWEGYIN	Kyuntaung reserve	1890	.....	6	.....	6	20	
	Total		.....	120,517	158,980	3,114	155,866	13,997
	GRAND TOTAL LOWER BURMA		.....	193,835	242,500	3,139	239,361	19,308

* Omitted in last year's return.

ANNUAL FORM NO 52 [PRESCRIBED].—*Statement showing the Area of Plantations in the Tenasserim Circle for the year 1889-90.*

Division.	Name of plantation.	Area in acres: On 1st April 1889.	Area in acres: Added during the year.	Area in acres: Excluded during the year.	Area in acres: Area on 31st March 1890.	Receipts: Of the year. Rs. A. P.	Charges: Of the year. Rs.	Remarks.
	Regular Plantations.							
ATABAN	Thinganyinaung	16	...	...	16	...	19	
WEST SALWEEN	Shwegun	5	...	...	5	...	...	
	Kolân island	2	...	...	2	...	...	
	Total	7	...	...	7	...	...	
	Total Regular Plantations	23	...	...	23	...	19	
	Cultural Operations.							
	Mergui experimental plantation	111	...	...	111	7 12 0	1,043	There were also receipts of Rs 143-8-0 from the cultivation undertaken with the Provincial grant.
	Total Cultural Operations	111	...	...	111	7 12 0	1,043	
	Total Regular Plantations	23	...	...	23	...	19	
	Total Cultural Operations	111	...	...	111	7 12 0	1,043	
	Total Taungya Plantations	4,378*	1,256	...	5,634	...	10,620	
	GRAND TOTAL	4,512	1,256	...	5,768	7 12 0	11,682	

* By rectification of previous figures. (See Form No. 52A).

ANNUAL FORM NO. 52 (PRESCRIBED).—*Statement showing the Area of Plantations in the Pegu Circle for the year 1889-90.*

Division.	Name of plantation.	Area in acres: On 1st April 1890.	Added during the year.	Excluded during the year.	Area on 31st March 1890.	Receipts (Of the year): Rs. A. P.	Charges (Of the year): Rs.	Remarks.
	Regular Plantations.							
PROME	Prome	73	.....	.....	73	.....	538	
THARRAWADDY	Bawbin-Chaungwa	340	.....	.....	340	.....	.....	
	Kywèmakaing	144	.....	.....	144	.....	60	
	Myodwin	10	.....	.....	10	.....	.....	
	Total	494	.....	.....	494	.....	60	
RANGOON	Kyetpyugan	798	3	.....	801	.....	764	
	Magayi	1,695	27	.....	1,722	.....	1,931	
	Total	2,493	30	.....	2,523	.....	2,695	
TOUNGOO	Kanni	65	.....	.....	65	.....	.....	
	Pyunchaung	701	.....	.....	701	.....	44	
	Yenè	9	.....	.....	9	.....	.....	
	Total	775	.....	.....	775	.....	44	
ARAKAN	Myauktaing	10	.....	.....	10	.....	.....	
	Total Regular Plantations	3,845	30	.....	3,875	.....	3,137	
	Cultural Operations.							
PROME	Chaungzauk	.....	.....	.....	.....	.....	2	
THARRAWADDY	Pazungyè	125	.....	.....	125	.....	.....	
	Bwet	600	.....	.....	600	.....	509	
	Nyanlè	830	.....	.....	830	.....	.....	
	Kangyi	350	.....	.....	350	.....	.....	
	Bilin	208	.....	.....	208	.....	.....	
	Mókka	800	.....	.....	800	.....	.....	
	Kadinzauk	300	.....	.....	300	.....	77	
	Total	3,213	.....	.....	3,213	.....	586	
	Total Cultural Operations	3,213	.....	.....	3,213	.....	586	
	Total Regular Plantations	3,845	30	.....	3,875	.....	3,137	
	Total Cultural Operations	3,213	.....	.....	3,213	.....	586	
	Total Taungya Operations	11,441	2,531	.....	13,972	.....	41,652	
	Total Pegu Circle VIII(d)	18,499	2,561	.....	21,060	.....	45,377	
	ABSTRACT.							
	Lower Burma.							
	Total Regular Plantations	3,868	30	.....	3,898	.....	3,156	
	Total Taungya Plantations	15,819	3,787	.....	19,606	.....	52,373	
	Total Cultural Operations	3,324	.....	.....	3,324	7 8 0	1,631	
	GRAND TOTAL	23,011	3,817	.....	26,828	7 8 0	57,059	

ANNUAL FORM NO. 52A.—*Statement of Taungya, Teak, Thitka, and Padauk Plantations in the Tenasserim Circle for the year 1889-90.*

Division.	Name of reserve.	Year of formation.	Area on 1st April 1889.	Area planted with teak, &c., during 1889-90.	Cost up to 1888-89. Original cost.	Cost up to 1888-89. Maintenance.	Cost during 1889-90. Original cost.	Cost during 1889-90. Maintenance.	Total cost.	Average cost per acre up to 1889-90.	Area on 31st March 1890.	Remarks.
			Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Rs.	
West Salween	Sinzwè	1869-70	1,065	253	4,037	5,761	1,615	641	12,054	9 2 3	1,318	Three hundred acres are deducted from the total area shown as cultivated. This area of 300 acres was a clerical error dating from the annual report of 1879-80, which has been carried on year after year, and was discovered this year by Mr. Ferrars.
	Wanu	1877-78	55	...	270	136	...	10	416	7 9 0	55	
	Kahilu	1879-80	174	68	736	1,055	404	119	2,314	9 9 0	242	
	Ookangyi	1877-78	835	113	2,856	1,233	529	523	5,140	5 6 9	948	
	Bilakatkyi	1877-78	443	40	1,019	671	106	226	2,022	4 3 0	483	
	Minanwè	1877-78	113	...	436	115	...	...	551	4 14 0	113	
	Mewaing	1879-80	602	301	3,307	641	1,733	448	6,179	6 13 6	903	
	Tagalaung	1889-90	...	105	...	...	468	...	468	4 7 3	105	
	Total		...	3,987	880	12,661	9,611	4,905	1,967	29,144	6 15 10	4,167
Ataran	Dali	1877-78	197	41	854	822	233	60	1,469	6 2 9	236	
	Kyunchaung	1881-82	203	29	1,695	553	177	116	2,541	10 15 3	232	
	Pakabo	1883-84	3	...	11	7	...	...	18	6 0 0	3	
	Natchaung	1888-89	33	33	135	...	194	...	329	5 14 0	66	
	Gongyi	1888-89	17	17	116	...	58	43	217	6 6 1	34	
	Thinganyinaung	1888-89	4	37	100	...	309	25	434	10 9 4	41	
	Total		...	457	147	2,911	882	971	244	5,008	8 4 8	604
East Salween	West Mepalè	1883-83	626	229	3,517	1,932	1,455	1,078	7,982	9 5 4	855
	Plantations other than Teak.											
West Salween	Kahilu	1883-84	6	...	35	14	...	...	49	8 2 8	6	
Ataran	Dali	1886-87	2	...	14	...	...	...	14	7 0 0	2	
	Total		...	8	...	49	14	...	...	63	7 14 0	8
	GRAND TOTAL		...	4,378	1,256	19,138	12,439	7,331	3,229	42,197	7 7 10	5,634

ANNUAL FORM NO. 52A (PRESCRIBED).—*Statement of Taungya, Teak, Cutch, &c., Plantations in the Pegu Circle for the year 1889-90.*

Division.	Name of plantation.	Area in acres. On 1st April 1889.	Added during the year.	Excluded during the year.	Area on 31st March 1890.	Cost up to 1888-89. Original cost.	Maintenance.	Cost during 1889-90. Original cost.	Maintenance.	Total.	Average per acre.
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.
PROME ...	Chaungzauk ...	567	197		764	3,890	3,972	1,557	637	10,056	13 2 7
	Bwet ...	475	366	...	841	3,410	815	4,236	510	8,971	10 10 8
	Shwele Yoma..	...	...	...	...	76	...	...	...	76	...
	Nyanlè ...	690	171	...	861	7,828	2,690	2,243	869	13,630	15 13 3
	Taungnyo Yoma	...	..	...	...	135	59	...	...	194	...
	Thitcho ...	15	...	...	15	70	...	...	...	70	4 10 8
	Gwèdauksan ...	81	...	...	81	609	506	...	38	1,443	17 13 0
	Bawbin Kyaukpyu	...	...	...	...	118	10	...	...	128	...
	Bawbin Chaungwa	418	105	...	523	4,430	2,001	1,359	393	8,183	15 10 4
	Lower Payagyi	123	136	...	250	1,445	191	1,745	287	3,668	14 2 7
THARRAWADDY.	Kàngyi ...	319	15	...	334	2,993	2,104	90	223	5,410	16 3 1
	Myodwin ...	3	3	...	6	36	15	28	5	84	14 0 0
	Myaung ...	297	...	...	297	3,868	1,973	...	155	5,996	20 3 0
	Minhla ...	1,367	596	...	1,963	16,139	4,606	6,565	1,699	29,009	14-12 5
	Mòkka ...	2,709	217	..	2,926	26,865	14,825	2,725	1,621	46,036	15 11 9
	Kadin-Bilin ...	824	161	...	985	9,646	4,600	1,859	750	16,855	17 1 9
	Kòn-Bilin ...	368	...	...	368	3,203	2,429	...	595	6,227	16 14 9
	Thònzà ...	458	153	...	611	4,503	2,267	2,045	827	9,641	15 13 6
	Padetmyaung...	23	31	...	54	186	...	189	46	421	7 12 9
	Kyaukkyidaung	10	...	...	10	84	...	...	20	104	10 6 4
	Teak seed ...	...	...	...	...	...	...	1,223	...	1,223	...
	Total ...	8,180	1,954	...	10,134	85,933	39,091	24,307	8,038	1,57,369	15 8 6
RANGOON ...	Zamayi ...	748	110	...	858	6,588	676	2,996	...	10,260	11 15 3
	Total ...	748	110	...	858	6,588	676	2,996	...	10,260	11 15 3

P.

ANNUAL FORM No. 52A [PRESCRIBED].—*Statement of Taungya, Teak, Cutch, &c., Plantations in the Pegu Circle for the year 1889-90*—concluded.

Division.	Name of plantation.	Area in acres. On 1st April 1889.	Added during the year.	Excluded during the year.	Area on 31st March 1890.	Cost up to 1888-89. Original cost.	Cost up to 1888-89. Maintenance.	Cost during 1889-90. Original cost.	Cost during 1889-90. Maintenance.	Total.	Average per acre.
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.
TOUNGOO	Yanè	118	15	...	133	1,162	386	214	130	1,892	14 3 7
	Myohla	...	10	...	10	...	...	55	...	55	5 8 0
	East Swa	177	...	...	177	1,536	750	...	285	2,571	14 8 4
	Bôndaung	24	...	...	24	189	130	...	...	319	13 4 8
	Kabaung	176	30	...	206	1,569	231	269	34	2,103	10 3 4
	Pyunchaung	9	...	...	9	395	79	31	...	505	56 1 9
	Plantation boards	...	...	...	...	180	41	...	...	221	.....
	Total	504	55	...	559	5,031	1,617	569	449	7,666	13 11 5
SHWEGYIN	Kyundaung	...	...	...	...	60	...	90	...	150	.....
	TOTAL TEAK TAUNGYAS	9,999	2,316	...	12,315	1,01,502	45,356	29,519	9,124	1,85,501	15 1 0
THAYETMYO	Satsuwa	2	...	...	2	31	...	...	4	35	17 8 0
PROME	Chaungzauk	38	...	...	38	350	288	...	29	667	17 8 10
TOUNGOO	Pyunchaung	2	...	...	2	10	...	19	...	29	14 8 0
	TOTAL CUTCH TAUNGYAS	42	...	...	42	391	288	19	33	731	17 6 6
THAYETMYO	Tindaw	27	170	...	197	331	...	1,542	92	1,965	9 13 7
PROME	Chaungzauk	590	...	...	590	3,839	3,797	...	800	8,436	14 4 9
THABBA-WADDY.	Kyaukkyidaung	283	45	...	328	2,364	1,672	256	96	4,390	13 6 3
	Pazingyi	12	...	...	12	106	49	...	...	157	13 1 4
	Padetmyaung	471	...	...	471	3,848	2,605	...	148	6,601	14 0 2
	Bwet	11	...	...	11	108	...	...	...	108	9 13 1
	Kangyi	6	...	...	6	57	...	...	21	78	13 0 0
	Total	783	45	...	828	6,483	4,326	256	267	11,334	13 11 0
TOUNGOO	Saing-Yanè	...	...	...	...	73	21	...	...	94	.....
	TOTAL TEAK AND CUTCH	1,400	215	...	1,615	10,729	8,144	1,798	1,159	21,829	13 8 3
	TOTAL TAUNGYAS	11,441	2,531	...	13,972	1,12,621	53,788	31,336	10,216	2,08,061	14 14 3

FORM NO. 54.—*Statement of Outturn (in cubic feet solid) of Timber and Fuel in the Tenasserim Circle for the year 1889-90 and Agency of Exploitation.*

Division	Timber in the rough logs.					Timber in the rough poles.					Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Outturn.
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft	C. ft	C. ft.	C. ft.	C. ft.
I.—RESERVED FORESTS.																										
Ataran	7,451	...	...	71,070	78,521	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	78,521
East Salween	113,807	...	...	...	113,807	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	113,807
West Salween	137,924	...	...	...	137,924	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	137,924
South Tenasserim	500	...	...	...	500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	500
Total ...	259,682	...	...	71,070	330,752	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	330,752
II.—PROTECTED FORESTS. Nil																										
III.—UNCLASSED FORESTS																										
Ataran	71,153	221,274	1,740	45,470	339,637	...	604	...	...	604	19,719	...	...	...	19,719	...	...	...	...	...	...	...	...	...	...	359,960
East Salween	290,873	177,792	30	...	468,695	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	468,695
West Salween	145,885	83,021	,60	...	227,966	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	227,966
Kado	...	147,980	1,470	...	149,450	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	149,450
South Tenasserim	4,498	636,397	1,901	...	642,796	...	13,102	...	...	13,102	7,257	...	...	...	7,257	...	...	...	...	...	...	...	...	...	...	663,155
Total ...	512,409	1,265,464	5,201	45,470	1,828,544	...	13,706	...	...	13,706	26,976	...	...	...	26,976	...	...	...	...	...	...	...	...	...	...	1,869,226
GRAND TOTAL ...	772,091	1,265,464	5,201	116,540	2,159,296	...	13,706	...	...	13,706	26,976	...	...	...	26,976	...	...	...	...	...	...	...	...	...	...	2,199,978

* The total quantity of firewood used cannot be given, as licenses are issued for the number of men engaged and not for the quantity of wood consumed.

FORM NO. 54.—*Statement of Outturn (in cubic feet solid) of Timber and Fuel in the Pegu Circle for the year 1889-90 and Agency of Exploitation*

Division.	Description of material.	Timber in the rough logs.					Timber in the rough poles.					Sawn or squared timber.					Miscellaneous.					Fuel.					Total.
		Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Government agency.	Purchasers.	Free grants.	Right-holders.	Total.	Outturn.
	I.—RESERVED FORESTS.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
THAYETMYO	Cutch	...	...	...	...	...	...	36	...	...	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
PROME	Unreserved woods	...	19,210	...	...	19,210	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19,210
THAREWADDY	Teak	535,300	...	...	...	535,300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	535,300
	Other reserved woods	...	1,301	...	...	1,301	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,301
	Unreserved woods	...	17,597	...	...	17,597	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17,597
	Cutch	...	17,702	...	...	17,702	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17,702
RANGOON	Teak	115,050	...	...	...	115,050	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	115,050
	Unreserved woods	4,100	487,930	...	...	492,030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	492,030
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22,400	...	...	22,400	22,400
TOUNGOO	Teak	...	193,204	...	...	193,204	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	193,204
	Total	654,450	736,944	...	...	1,391,394	...	36	...	...	36	...	...	...	...	...	...	...	...	...	...	22,400	...	...	22,400	1,413,830
	II.—PROTECTED FORESTS. *Nil.*																										
	III.—UNRESERVED FORESTS.																										
THAYETMYO	Teak	36,950	10,090	500	...	47,540	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	47,540
	Unreserved woods	70	559,960	...	...	560,030	...	199,054	...	...	199,054	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	759,074
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11,700	...	...	11,700	11,700

PROME	Teak	91,950	28,400	250	...	120,600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	120,600
	Unreserved woods ...	4,100	210,700	...	...	214,800	500	25,930	...	...	26,430	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	241,230
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	50	35,650	...	...	35,700		35,700
THARRAWADDY	Teak	1,033,500	25,810	100	...	1,059,410	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		1,059,410
	Other reserved woods ...	...	4,199	...	...	4,199	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		4,199
	Unreserved woods ...	...	322,851	...	...	322,851	...	2,650	...	...	2,650	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		325,501
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	59,183	...	...	59,183		59,183
RANGOON	Teak	211,500	50	100	...	211,650	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		211,650
	Other reserved woods ...	...	6,550	50	...	6,600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		6,600
	Unreserved woods ...	...	2,100	...	...	2,100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		2,100
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5,000	...	...	5,000		5,000
TOUNGOO	Teak	373,800	396,996	1,350	...	772,146	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		772,146
	Other reserved woods ...	...	20,060	550	...	20,610	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		20,610
	Unreserved woods ...	...	491,970	...	...	491,970	...	640,070	...	...	640,070	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		1,132,040
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13,963	...	...	13,963		13,963
SHWEGYIN	Teak	62,500	92,780	...	...	155,280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		155,280
	Other reserved woods ...	8,640	24,550	550	...	33,740	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		33,740
	Unreserved woods ...	...	381,930	900	...	382,830	...	233,050	...	...	233,050	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		615,880
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25,020	...	...	25,020		25,020
WESTERN	Teak	10,250	2,780	950	...	13,980	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		13,980
	Other reserved woods ...	...	19,810	4,100	...	23,910	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		23,910
	Unreserved woods ...	5,300	741,470	750	...	747,520	...	733,290	...	...	733,290	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		1,480,810
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9,800	...	...	9,800		9,800
AGENCY	Unreserved woods ...	...	...	...	...	...	...	26,010	...	...	26,010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		26,010
	Fuel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	435,303	...	...	435,303		4,35,503
	Total ...	1,838,560	3,343,046	10,150	...	5,191,756	500	1,860,044	...	...	1,860,544	...	...	...	...	...	...	...	...	...	...	50	594,919	...	...	594,969		7,647,269
	GRAND TOTAL ...	2,493,010	4,079,990	10,150	...	6,583,150	500	1,860,080	...	...	1,860,580	...	...	...	...	...	...	...	...	...	...	50	617,319	...	...	617,369		9,061,099

ANNUAL FORM No 55 [PRESCRIBED] —*Statement showing Outturn of Minor Forest Produce in the Tenasserim Circle for the year 1889-90.*

Division.	Description of produce	Produce removed or utilized										Remarks.
		By Government agency		*By purchasers*		*By free grants*		*By right-holders*		*Total.*		
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value.	Quantity	Value	
			Rs. A P		Rs. A P		Rs.		Rs		Rs.	
	I—RESERVED FORESTS.											
SOUTH TENASSERIM	Bamboos	3,000	7 8 0	5,000	12 8 0	...	...	.	...	8,000	20	
	Canes	...	.	30,000	15 0 0	..	..	...	...	30,000	15	
	Total	3,000	7 8 0	35,000	27 8 0	..		.	...	38,000	35	
	II.—PROTECTED FORESTS.											
	Nil.											
	III—UNRESERVED FORESTS											
ATABAN ..	Kanyin-oil	...	..	..	168 0 0		..	...	..	.	168	
KADO ..	Kanyin-oil	..	..	. ...	24 0 0	..	...	..	...	.....	24	
SOUTH TENASSERIM.	Kanyin-oil	...	.	...	1,594 0 0	...	...	...	...	. ..	1,594	
	Total ...	..		..	1,786 0 0	..	...	..	..	.	1,786	
	GRAND TOTAL ..	..	7 8 0	..	1,813 8 0	.	...	.	...	.....	1,821	

FORM No. 55 [PRESCRIBED].—*Statement showing Outturn of Minor Forest Produce in the Pegu Circle for the year 1889-90.*

Division.	Description of produce.		Produce removed or utilized.										Remarks.
			By Goverment agency.		*By purchasers.*		*By free grants.*		*By right-holders.*		*Total.*		
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
	I.—RESERVED FORESTS.			Rs.		Rs.		Rs.		Rs.		Rs.	
PROME	Bamboos	No.	...	...	6,700	17	...	...	...	...	6,700	17	
	Shaw bark	Viss	...	...	7,550	75	...	...	...	...	7,550	75	
	Thetkè	Baskets	...	...	150	2	...	...	...	...	150	2	
	Thanatpet	"	...	...	60,000	3	...	...	...	...	60,000	3	
	Tè fruit	"	...	...	4	2	...	...	...	...	4	2	
THARRAWADDY.	Bamboos	No.	...	...	1,071,850	2,679	...	...	52,785	515	1,124,635	3,194	
	Grazing	Head	...	...	193	95	...	...	1,598	451	1,791	546	
	Cutch	Viss	...	...	962,000	88,782	...	...	...	...	962,000	88,782	
	Shaw fibre	"	...	...	13,325	133	...	...	153	25	13,478	158	
	Cigar leaves	"	...	...	1,450	145	...	...	...	...	1,450	145	
	Honey	"	...	...	250	5	...	...	...	...	250	5	
	Thetkè	Bundles	...	...	790	23	...	...	5,500	55	6,290	78	
	Canes	"	...	...	250	2	...	...	4,060	10	4,310	12	
	Fruits	"	...	...	312	78	...	...	...	...	312	78	
	Resin and wood-oil	Viss	...	...	8,750	35	...	...	...	...	8,750	35	
	Fishing	Licenses	...	...	...	10	...	...	...	...	...	10	
	II.—PROTECTED FORESTS.												
THAYETMYO	Bamboos	No.	...	...	10,670	27	...	...	...	...	10,600	27	
	Betel leaves	Viss	...	...	1,050	10	...	...	...	...	1,050	10	
	Fishing	Licenses	...	...	...	30	...	...	...	...	...	30	
TOUNGOO	Bamboos	No.	...	...	100,700	252	...	...	4,700	12	105,400	264	
	Shaw fibre	Viss	...	...	100	6	...	...	...	...	100	6	
	Thetkè	Bundles	...	...	...	...	...	...	450	1	450	1	
	Canes	No.	...	...	740	74	...	...	...	...	740	74	
	Grazing	Head	...	...	...	...	...	...	59	19	59	19	
	Kanyin-oil	Viss	...	...	2,000	20	...	...	...	...	2,000	20	
SHWEGYIN	Bamboos	No.	...	...	5,500	14	...	...	...	...	5,500	14	
RANGOON	Bamboos	No.	...	...	968,675	2,422	...	...	...	...	968,675	2,422	
	Grazing	Head	...	...	414	124	...	...	...	...	414	124	
	Shaw bark	Viss	...	...	10,700	214	...	...	...	...	10,700	214	
	Theng	Carts	...	...	13	52	...	...	...	...	13	52	
	Canes	"	...	...	7	26	...	...	...	...	7	26	
	Thatch	"	...	...	8	16	...	...	...	...	8	16	
	Cigar leaves	Licenses	...	...	...	4	...	...	...	...	...	4	
	Betel	"	...	...	...	60	...	...	...	...	...	60	
	Carried over ...		...	...	...	25,457	...	...	...	1,088	...	26,545	

FORM NO. 55 [PRESCRIBED].—*Statement showing Outturn of Minor Forest Produce in the Pegu Circle for the year 1889-90*—concluded.

Division.	Description of produce.	Produce removed or utilized.										Remarks.
		By Government agency.		By purchasers.		By free grants.		By right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
	Brought forward ...	...	...	...	95,457	...	...	...	1,088	...	96,545	
	II.—PROTECTED FORESTS—*concluded.*											
RANGOON	Fishing .. ... Licenses	...	...	...	10	...	...	...	...	...	10	
	Salu ... ... Carts	...	...	1	2	...	...	...	...	1	2	
	Tè ... ... Baskets	...	...	12	6	...	...	...	...	12	6	
	Kanazothi ... ... Licenses	...	...	...	2	...	...	...	...	...	2	
	Laterite... ... ... Feet	...	...	2,000	2	...	...	...	...	2,000	2	
	Total ...	...	...	...	95,479	...	...	...	1,088	...	96,567	
	III.—UNRESERVED FORESTS.											
PROME	Cutch ... ... Viss	...	...	3,05,000	6,100	...	...	...	...	305,000	6,100	
	Resin ... ... ,,	...	...	31,200	208	...	...	...	...	31,200	208	
THAYETMYO	Cutch ... ... ,,	...	...	1,508,000	56,115	...	...	...	...	1,508,000	56,115	
	Resin ... ... ,,	...	...	4,000	80	...	...	...	...	4,000	80	
THARRA-WADDY.	Cutch ... ... ,,	...	...	22,000	1,960	...	...	...	...	22,000	1,960	
	Resin and oils ... ... ,,	...	...	6,500	104	...	...	...	...	6,500	104	
TOUNGOO	Cutch ... ... ,,	...	...	21,500	860	...	...	...	...	21,500	860	
	Thitsi ... ... ,,	...	...	8,240	412	...	...	...	...	8,240	412	
	Kanyin-oil ... ... ,,	...	...	2,660	266	...	...	...	...	2,660	266	
	Twenyet... ... ... ,,	...	...	20	2	...	...	...	...	20	2	
SHWEGYIN	Wood-oil ... ... ,,	...	...	4,200	420	...	...	...	...	4,200	420	
RANGOON	Wood-oil ... ... ,,	...	...	124	62	...	...	...	...	124	62	
	Linbin bark ... ... ,,	...	...	300	6	...	...	...	...	300	6	
WESTERN	Cutch ... ... ,,	...	...	56,000	1,860	...	...	...	...	56,000	1,860	
	Wood-oil ... ... ,,	...	...	64	16	...	...	...	...	64	16	
	Total ...	...	...	...	67,771	...	...	...	...	...	67,771	
	GRAND TOTAL PEGU CIRCLE ...	...	...	...	1,63,250	...	...	...	1,088	...	1,64,338	

ANNUAL FORM No. 56 [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts or sold locally in the Tenasserim and Pegu Circles for the year 1889-90.*

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE.				
TIMBER.				
Opening balance.				
Akaran division. Padauk logs ...	95	3,520		
Ingyin logs ...	8	202		
Pyinma logs ...	41	1,780		
Thitya logs ...	7	268		
Thingan logs ...	82	3,020		
Padauk planks ...	1	52		
Teak scantlings ...	5	244		
Pyinma scantlings ...	2	141		
Thitya sleepers ...	8	27		
			249	9,854
East Salween division. Teak logs and pieces	1,344	54,568		
Padauk logs ...	68	1,958		
Pyinma logs ...	258	12,077		
Thitka logs ...	8	308		
Thitkado logs ...	5	255		
Pyinkado posts ...	7	81		
Thingan hulls ...	3	266		
			1,713	69,513
West Salween division. Teak logs and pieces	320	2,508		
Thitka logs ...	1	46		
Pyinma logs ...	133	5,774		
Pyinkado sleepers, large.	140	485		
Pyinkado sleepers, small.	238	275		
			832	9,178
Kado division. Drift teak ...	5,011	218,145		
Drift woods of other kinds.	47	2,118		
Foreign teak ...	50,500	2,425,050		
Foreign woods, other kinds.	62	2,305		
			52,619	2,647,618
South Tenasserim division. Thitka logs ...	7	450		
Anan logs ...	6	177		
Kamaung logs ...	38	1,900		
Thingan logs ...	21	903		
Padauk logs ...	37	3,400		
Thitsiá logs ...	3	195		
Drift teak logs ...	1	65		
Drift kazit logs ...	1	21		
Drift yamané logs ...	2	115		
Drift tharapè logs ...	1	128		
Drift kadut logs ...	1	63		
Confiscated kadut ...	9	572		
Sleepers, large ...	211	733		
Sleepers, small ...	88	57		
			376	8,759
Received from the Forests in Depôts.				
Teak logs, pieces, and crooks	25,747	650,048		
Padauk logs ...	188	9,553		
Thitka logs ...	119	7,280		
Pyinma logs ...	975	50,200		
Thingan logs ...	1	188		
Kamaung logs ...	1	36		
Pyinkado logs ...	1,270	30,095		
Unreserved woods, logs ...	19	757		
Drift teak logs ...	4,001	172,667		
Drift logs, other than teak	264	12,797		
Confiscated logs ...	20	706		
			33,205	955,903
Carried over ...	...	...	98,904	3,700,885

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE.				
TIMBER.				
Removed by Purchasers from Depôts.				
Teak logs, pieces, and crooks.	27,580	727,211		
Padauk logs	164	8,102		
Ingyin logs	5	154		
Thingan logs	7	525		
Thitka logs	128	7,634		
Thitkado logs	5	205		
Pyinma logs	935	51,104		
Kamaung logs ...	3	146		
Woods, other than teak ...	22	952		
Drift teak logs ...	3,242	121,075		
Drift woods, other than teak.	247	11,906		
Confiscated, other than teak.	17	682		
Scantlings 3″×1½″ ...	120	2,437		
Scantlings 5″×3″ ...	5	320		
			32,501	922,503
Sold locally.				
Teak logs	55	2,328		
Thingan logs	1	60		
			56	2,388
Converted in Depôts.				
Teak logs	10	482		
Pyinma logs	19	1,014		
Pyinkado logs	1,200	35,976		
			1,208	37,472
Used, lost, drifted, &c.				
Teak logs	12	330		
Teak scantlings ...	8	320		
Pyinma scantlings ...	1	70		
Sleepers, broad gauge ...	211	733		
Sleepers, narrow gauge ...	38	57		
Confiscated kadut ...	1	20		
Drift teak	1	65		
			272	1,670
Delivered to claimants.				
Drift teak	1,723	81,096		
Drift woods, other than teak.	4	298		
			1,727	81,394
Sent as samples to the Bengal Store Company.				
Pyinma sleepers ...	110	184		
			110	184
Logs cleared from Depôt on payment of duty.				
Foreign teak	55,798	1,845,150		
Foreign wood, other kinds	2	100		
			55,795	1,845,250
Closing balance.				
Akaran division. Padauk logs ...	109	3,811		
Ingyin logs ...	3	48		
Pyinma logs ...	340	19,470		
Thitya logs ...	7	268		
Thingan logs ...	76	3,288		
Thitya sleepers ...	8	27		
Pyinma sleepers ...	51	81		
Pyinkado	6,139	9,241		
Padauk planks ...	1	52		
Teak scantlings ...	3	178		
Pyinma scantlings ...	7	302		
Pyinkado scantlings...	192	9,500		
			6,938	46,420
Carried over ...	...	...	98,757	2,947,281

ANNUAL FORM NO. 56 [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency, &c.*—continued.

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE—concluded.				
Brought forward ...			96,994	3,700,895
Received from the Forests and sold locally.				
Teak logs	55	2,298		
Thingan	1	60		
			56	2,358
Received by conversion in Depôts.				
Teak scantlings	6	314		
Pyinma scantlings ...	6	300		
Pyinkado scantlings ...	317	12,356		
Pyinkado sleepers ...	9,139	13,741		
Pyinma sleepers ...	161	205		
			9,629	26,970
Foreign timber entered at Kado Revenue Station.				
Teak logs	123,622	4,944,880		
Woods, other than teak ...	15	750		
			123,637	4,945,630
GRAND TOTAL ...	...	...	232,316	8,675,879

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE—concluded.				
Brought forward ...			96,707	2,947,281
Closing balance—concluded.				
East Salween division. Teak logs	84	2,315		
Padauk logs ...	105	3,173		
Pyinma logs ...	83	4,249		
Pyinkado posts ...	7	81		
Thingan	3	266		
			282	10,084
West Salween division. Teak logs and pieces	117	1,764		
Pyinkado sleepers, large.	140	485		
Pyinkado sleepers, small.	238	275		
			495	2,544
Kado division. Drift teak ...	5,085	173,927		
Drift woods, other than teak.	46	2,100		
Foreign teak ...	124,428	5,524,780		
Foreign woods, other kinds.	75	2,955		
			129,634	5,703,162
South Tenasserim division. Thitka logs ...	7	450		
Anan logs	6	177		
Kamaung logs ...	86	1,790		
Thingan logs ...	21	903		
Padauk logs ...	37	3,345		
Pyinkado logs ...	1	59		
Drift logs, other than teak.	10	938		
Confiscated, other than teak.	11	646		
Pyinkado sleepers, narrow gauge.	3,000	4,500		
			3,138	12,808
GRAND TOTAL ...	...	...	232,316	8,675,879

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
PEGU CIRCLE.				
OPENING BALANCE.				
Prome—				
Teak logs	69	3,312		
Drift teak logs ...	136	6,528		
			205	9,840
Tharrawaddy—				
Teak paddy-field logs ...	...	...	11,840	216,024
Shwegyin—				
Teak drift logs ...	117	4,234		
Drift logs other than teak	25	1,190		
			142	5,424
Western—				
Logs other than teak ...	90	2,530		
Teak drift logs ...	404	23,340		
			494	25,870
Agency—				
Teak logs	19,033	922,644		
Teak sleepers	44	66		
Logs other than teak ...	4	108		
Teak drift logs ...	58	3,700		
			19,139	926,578
Carried over ...	...	...	31,820	1,183,736

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
PEGU CIRCLE.				
Removed by purchasers from Depôts.				
Teak logs	25,759	1,226,439		
Teak sleepers	2	3		
Logs, other than teak ...	13	585		
Drift teak logs ...	71	3,408		
Drift logs, other than teak	4	180		
			39,750	873,632
Sold locally.				
Teak logs	2,680	117,406		
Paddy-field teak logs ...	34,896	652,948		
Refuse teak logs ...	33	1,320		
Logs other than teak ...	656	20,520		
Waif, other than teak ...	8	350		
Teak drift logs ...	1,355	65,040		
Refuse teak drift logs ...	32	613		
Drift logs, other than teak	141	6,345		
			41,902	976,928
Used, lost, stolen, &c.				
Teak logs	1	48		
Logs, other than teak ...	17	765		
			18	813
Carried over ...	...	...	65,617	2,105,053

ANNUAL FORM NO. 56 [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency, &c.*—concluded.

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
PEGU CIRCLE—concluded.				
Brought forward ...	...	...	31,820	1,183,736
Received from Forests by extraction.				
Teak logs	29,494	1,415,712		
Paddy-field teak logs ...	38,983	740,077		
Refuse teak logs... ...	5,233	200,320		
Logs, other than teak ...	207	13,365		
Waif logs, other than teak	8	350		
			74,015	2,379,424
Received from Forests and disposed of locally.				
Teak logs	...	...		
Refuse teak logs... ...	10	400		
Logs, other than teak ...	383	17,235		
			393	17,635
Drift collected in various divisions during the year.				
Teak logs	14,193	681,204		
Teak waif logs	12	519		
Logs, other than teak ...	147	6,615		
			14,352	688,398
Received into Depôts from Forests.				
Teak logs	33,059	1,588,079		
Logs, other than teak ...	10	450		
Drift teak logs	856	41,088		
			33,925	1,630,517
Collected by Agency.				
Teak logs	1,632	78,336		
Logs, other than teak ...	7	315		
			1,639	78,651
GRAND TOTAL ...	...	...	156,144	5,978,361

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
PEGU CIRCLE—concluded.				
Brought forward ...	...	...	65,617	2,105,053
Returned to claimants.				
Teak logs	14,706	703,888		
Logs, other than teak ...	13	585		
			14,719	704,473
Transferred to Depôts.				
Teak logs	26,681	1,280,070		
Paddy-field teak logs ...	385	7,315		
Teak refuse logs ...	5,210	208,400		
Logs, other than teak ...	9	405		
Teak drift logs	254	12,102		
			32,539	1,509,288
Closing balance.				
Thayetmyo—				
Teak logs	43	1,540		
Drift teak logs ...	100	4,292		
			143	5,832
Prome—				
Teak logs	54	2,592		
Drift teak logs ...	69	1,918		
			123	4,510
Tharrawaddy—				
Paddy-field teak logs ...	...	...		
			15,602	296,438
Toungoo—				
Drift teak logs ...	...	...		
			156	7,488
Western—				
Teak logs	15	303		
Teak drift logs ...	210	12,120		
			225	12,423
Shwegyin—				
Teak logs	80	3,300		
Logs, other than teak ...	88	3,400		
Teak drift logs ...	185	9,250		
Drift logs, other than teak	18	900		
			371	16,850
Agency—				
Teak logs	26,353	1,304,228		
Teak sleepers ...	42	63		
Logs, other than teak ...	1	85		
Drift teak logs ...	270	11,518		
Drift logs, other than teak	3	112		
			26,649	1,316,000
GRAND TOTAL ...	...	...	156,144	5,978,361

ANNUAL FORM No. 56A [PRESCRIBED].—*Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts or sold locally for the year 1889-90.*

Particulars.	Tenasserim circle.		Pegu circle.		Total of each head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Opening balance ...	65,789	2,744,922	31,820	1,183,736	97,609	3,928,658
Received from the forests in depôts.						
Teak logs, pieces and crooks	25,747	659,648	33,059	1,588,979	58,806	2,248,627
Padauk logs	188	9,553				
Thitka logs	119	7,280				
Pyinma logs	975	56,206				
Thingan logs	1	188	10	450	2,583	110,505
Kamaung logs	1	36				
Pyinkado logs	1,270	36,035				
Unreserved woods, logs	19	757				
Drift teak logs	4,601	172,657	856	41,098	5,457	213,755
Drift logs, other than teak	264	12,797	...	...	264	12,797
Confiscated logs	20	796	...	...	20	796
Total ...	33,205	955,963	33,925	1,630,517	67,130	2,586,480
Received from forests by extraction.						
Teak logs	...	...	29,494	1,415,712	29,494	1,415,712
Paddy-field teak logs	...	...	38,983	740,677	38,983	740,677
Refuse teak logs	...	...	5,233	209,320	5,233	209,320
Logs, other than teak	...	...	297	13,365	297	13,365
Waif logs, other than teak	...	...	8	350	8	350
Total ...	...	...	74,015	2,379,424	74,015	2,379,424
Received from forests and disposed of locally.						
Teak logs	55	2,328	...	...	55	2,328
Refuse teak logs	...	...	10	400	10	400
Logs, other than teak	1	60	383	17,235	384	17,295
Total ...	56	2,388	393	17,635	449	20,023

Particulars.	Tenasserim circle.		Pegu circle.		Total of each head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Removed from depôts by purchasers.						
Teak logs, pieces and crooks ...	27,580	727,211	25,759	1,226,432	53,339	1,953,643
Padauk logs	164	8,102				
Ingyin logs	5	154				
Thingan logs	7	525				
Thitka logs	128	7,634				
Thitkado logs	5	255	13	585	1,308	69,457
Pyinma logs	956	51,104				
Kamaung logs	3	146				
Woods, other than teak	22	953				
Drift teak logs	3,242	121,075	71	3,408	3,313	124,483
Drift woods, other than teak ...	247	11,906	4	180	251	12,086
Confiscated, other than teak	17	682	...	...	17	682
Scantlings 3″ × 1½″	120	2,437	...	...	120	2,437
Scantlings 5″ × 3″	5	320	...	...	5	320
Teak sleepers	...	...	2	3	2	3
Total ...	32,501	932,503	25,849	1,230,608	58,350	2,163,111
Disposed of locally.						
Teak logs	55	2,328	2,689	117,496	2,744	119,824
Logs, other than teak	1	60	656	29,520	657	29,580
Paddy-field teak logs	...	...	34,836	652,948	34,836	652,948
Refuse teak logs	...	...	33	1,320	33	1,320
Waif logs, other than teak	...	...	8	350	8	350
Drift teak logs	...	...	1,355	65,040	1,355	65,040
Refuse drift teak logs	...	...	32	613	32	613
Drift logs, other than teak	...	...	141	5,345	141	5,345
Total ...	56	2,388	39,750	873,632	39,806	876,020
Used, lost, drifted, &c.						
Teak logs	12	336	1	4	13	384
Teak scantlings	8	380	...	...	8	380
Pyinma scantlings	1	79	17	765	18	844
Sleepers, broad guage	211	733	...	...	211	733
Sleepers, narrow guage	38	57	...	...	38	57
Confiscated kadut	1		...	...	1	20
Drift teak	1		...	...	1	65
Total ...	272	1,670	18	813	290	2,483

Received by conversion in depôts.						
Teak scantlings ...	6	314	...	...	6	314
Pyinma scantlings ...	6	300	...	...	6	300
Pyinkado scantlings ...	317	12,356	...	...	317	12,356
Pyinkado sleepers ...	9,139	13,741	...	...	9,139	13,741
Pyinma sleepers ...	161	265	...	...	161	265
Total ...	9,629	26,976	...	...	9,629	26,976
Foreign timber entered at Kado Revenue Station.						
Teak logs ...	123,622	4,944,880	...	...	123,622	4,944,880
Woods, other than teak ...	15	750	...	...	15	750
Total ...	123,637	4,945,630	...	...	123,637	4,945,630
Drift collected in various divisions.						
Teak logs ...	...	...	14,193	681,264	14,193	681,264
Teak waif logs ...	...	...	12	519	12	519
Logs, other than teak ...	...	...	147	6,615	147	6,615
Total ...	...	...	14,352	688,398	14,352	688,398
Collected by agency.						
Teak logs ...	...	...	1,632	78,336	1,632	78,336
Logs other than teak ...	...	...	7	315	7	315
Total ...	...	...	1,639	78,651	1,639	78,651
Grand Total ...	232,316	8,675,879	156,144	5,978,361	388,460	14,654,240

Returned to claimants.						
Teak logs ...	...	...	14,706	703,888	14,706	703,888
Drift teak logs ...	1,793	81,096	...	...	1,793	81,096
Drift woods other than teak ...	4	298	...	...	4	298
Logs, other than teak ...	...	...	13	585	13	585
Total ...	1,797	81,394	14,719	704,473	16,516	785,867
Transferred to depôts.						
Teak logs ...	...	...	26,681	1,260,976	26,681	1,260,976
Paddy-field teak logs ...	...	...	385	7,315	385	7,315
Refuse teak logs ...	...	...	5,210	208,400	5,210	208,400
Logs, other than teak ...	...	...	9	405	9	405
Drift teak logs ...	...	...	254	12,192	254	12,192
Total ...	...	...	32,539	1,509,288	32,539	1,509,288
Cleared on payment of duty.						
Foreign teak ...	55,793	1,845,150	...	...	55,793	1,845,150
Foreign, other kinds ...	2	100	...	...	2	100
Total ...	55,795	1,845,250	...	...	55,795	1,845,250
Converted in depôts						
Teak logs ...	10	482	...	...	10	482
Pyinma logs ...	19	1,014	...	...	19	1,014
Pyinkado logs ...	1,269	35,976	...	...	1,269	35,976
Total ...	1,298	37,472	...	...	1,298	37,472
Sent as samples to the Bengal Store Company.						
Pyinma sleepers ...	110	184	...	...	110	184
Closing balance.						
Teak logs ...	201	4,099	26,525	1,311,963	26,726	1,316,062
Drift teak logs ...	5,085	173,327	990	46,586	6,075	219,913
Teak sleepers ...	...	...	42	63	42	63
Other than teak sleepers ...	3,437	5,368	...	...	3,437	5,368
Logs, other than teak ...	6,975	50,533	89	3,485	7,064	54,018
Teak scantlings ...	3	178	...	...	3	178
Other than teak scantlings ...	199	9,961	...	...	199	9,961
Posts, other than teak ...	7	81	...	...	7	81
Drift logs, other than teak ...	65	3,038	21	1,012	86	4,050
Padauk planks ...	1	52	...	...	1	52
Paddy-field teak logs ...	...	...	15,602	296,438	15,602	296,438
Foreign teak ...	124,428	5,524,780	...	...	124,428	5,524,780
Foreign timber, other than teak ...	75	2,955	...	...	75	2,955
Confiscated, other than teak ...	11	646	...	...	11	646
Total ...	140,487	5,775,018	43,269	1,659,547	183,756	7,434,565
Grand Total ...	232,316	8,675,879	156,144	5,978,361	388,460	14,654,240

FORM NO. 57 [PRESCRIBED].—*Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1889-90.*

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
TENASSERIM CIRCLE.									
Timber.			Rs.			Rs.	Rs.	Rs.	
Logs, teak	1,664	57,166	40,741	201	4,009	1,658	...	39,083	
Drift logs	5,959	220,328	59,610	5,131	175,427	51,390	...	8,220	
Logs (woods, other kinds) ...	862	38,059	13,319	873	42,957	14,191	872	...	
Sleepers	635	1,577	906	9,576	14,009	16,284	15,378	...	
Scantlings, teak	5	244	244	3	178	142	...	102	
Scantlings other than teak ...	3	193	116	200	10,013	5,475	5,359	...	
Foreign teak	56,590	2,425,080	11,31,980	124,428	5,524,780	24,88,560	13,56,580	...	
Foreign woods (other kinds) ...	62	2,305	620	75	2,955	750	130	...	
Total ...	65,780	2,744,992	12,47,626	140,487	5,773,018	25,78,440	13,30,814	...	
PEGU CIRCLE.									
Timber.									
Teak logs	19,102	925,956	6,74,500	26,525	1,311,963	9,28,375	2,53,875	...	
Teak paddy-field logs	11,840	216,024	41,400	15,602	296,498	78,010	36,610	...	
Teak sleepers	44	66	22	42	63	21	...	1	
Logs other than teak	94	2,098	750	89	3,485	712	...	38	
Teak drift logs	715	37,802	16,440	990	40,580	22,494	6,054	...	
Drift logs other than teak ...	25	1,190	900	21	1,012	164	...	36	
Total ...	31,820	1,183,736	7,33,812	43,269	1,650,547	10,29,776	2,96,464	...	

Net difference for the year 1,627,278.

FORM NO. 57-A.—*Abstract showing the Value of the Live and Dead Stock for the year 1889-90.*

Particulars.	On hand at commencement of year.			On hand at close of year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
			Rs.			Rs.	Rs.	Rs.	
Live stock	7	...	7,600	10	...	10,470	2,870	...	
Buildings	25	...	19,067	27	...	19,108	...	959	
Dead stock	...	...	12,973	...	...	12,337	...	36	
Total Tenasserim Circle ...	...	...	39,040	...	...	41,915	1,975	...	
Live stock	38	...	43,800	37	...	48,600	4,800	...	
Buildings	43	...	54,580	45	...	54,720	140	...	
Dead stock	...	...	29,300	...	...	29,547	247	...	
Total Pegu Circle ...	...	...	1,27,680	...	...	1,32,867	5,187	...	
GRAND TOTAL, LOWER BURMA ...	...	...	1,67,620	...	...	1,74,782	7,162	...	

Net difference for the year 7162.

FORM NO. 58 [PRESCRIBED].—*Summary of Reveuue of the different Divisions for the year 1889-90.*

Budget heads—receipts.	Ataran division.	Kado division.	South Tenasserim division.	Total Tenasserim circle.	Agency.	Rangoon division.	Tharrawaddy division.	Prome division.	Thayetmyo division.	Western division.	Toungoo division.	Shwegyin division.	Total Pegu circle.	Grand total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—														
(a) Timber	4,42,209	...	3,675	4,45,884	14,27,686	2,169	2,29,181	1,457	3,640	3,277	2,169	3,133	16,72,712	21,18,596
(b) Firewood and charcoal	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(c) Bamboos	...	...	7	7	...	...	...	...	...	...	...	...	...	
(d) Sandal-wood	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(e) Grass and other minor produce	...	...	...	...	...	...	...	...	...	...	...	...	...	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—														
(a) Timber	30,952	6,752	12,354	50,058	2,610	23,295	20,753	13,448	21,564	52,809	2,65,782	58,202	4,58,463	5,08,521
(b) Firewood and charcoal	226	...	9	235	22,734	764	186	117	59	98	168	487	24,613	24,848
(c) Bamboos	...	...	13	13	...	2,422	2,679	17	27	...	252	14	5,411	5,424
(d) Grazing and fodder grass	...	...	...	...	...	124	95	...	...	...	...	...	219	219
(e) Other minor produce	168	24	1,609	1,801	...	482	90,878	6,390	56,215	1,876	1,640	420	1,57,601	1,59,402
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE	...	65,998	284	66,282	10,799	1,239	120	5,025	2,960	10,280	18,533	12,525	61,381	1,27,663
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—														
(a) Duty on foreign timber and other forest produce	...	1,39,014	...	1,39,014	...	...	...	...	...	...	...	...	...	1,39,014
(b) Revenue from shared and private forests	...	...	...	...	...	...	...	...	...	...	...	...	...	...
V.—MISCELLANEOUS—														
(a) Fines and forfeitures &c.	612	9,204	347	10,163	25	667	6,263	2,714	2,515	462	444	71	13,261	23,424
(b) Refunds	47	22	...	69	13	...	45	14	...	8	46	...	126	195
(c) Other sources	208	19,510	314	20,032	1,692	254	1,159	545	191	168	2,902	400	7,371	27,403
Total ...	4,74,422	2,40,524	18,612	7,33,558	14,65,559	31,416	3,51,150	29,727	87,071	68,978	2,91,996	75,252	24,01,156	31,34,716

CALCUTTA:
The 30th May 1890.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller-General's Office.

ANNUAL FORM No 58 PRESCRIBED —*Summary of Expenditure of the different Divisions for the year 1889 90*

Budget heads	Akyab division	Kado division	South Tenasserim division	Total Tenasserim circle	Agency division	Rangoon division	Tharrawaddy division	Prome division	Thayetmyo division	Western division	Toungoo division	Shwegyin division	Total Pegu circle	Grand Total
A.—CONSERVANCY AND WORKS														
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—	Rs	Rs	Rs.	Rs.	Rs.	Rs.	Rs	Rs	Rs.	Rs	Rs.	Rs	Rs.	Rs
(a) Timber	2 06,023		6 917	2,12 940	20,675	76,254	2,79,200	14,838	11,428	2,368	1,37,235	423	5,32,421	7 45,361
(b) Firewood and charcoal				--		--			--					
(c) Bamboos				--					--	--	--	--	--	--
(d) Sandal wood	--			--			--	--	--	--		--		--
(e) Grass and other minor produce	--				--									
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—	276	963	--	1 239	882	1,658	1 240	960	1 038	1,852	799	246	8,663	9 902
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE	12	31 613	77	31 702	4,094	1,812	234	1 518	1 740	7 885	9,241	8,157	34,681	66,383
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—														
(a) Duty on foreign timber and other forest produce		7 090		7 090		--	--	--	--	--		--		7 090
(b) Revenue from shared and private forests	--	--		--	--	--		--		--				--
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT		--			--	--	--	--			--	--	--	
VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—														
(a) Purchase of cattle	2,870	--		2,870	4,900				--	--	--		4,900	7 770
(b) Feed and keep of cattle	3,201			3 201	9,347	647	2 775	465	429	976	634	676	15 949	19 150
(c) Purchase of stores, tools and plant	2,015	684	146	2,845	2,174	133	303	40	531	155	88	116	3,536	6,381
VII.—COMMUNICATIONS AND BUILDINGS—														
(a) Roads and bridges					13	387	329				33		633	633
(b) Buildings	1 189	1 026	9	2,217	1,303	2 094	1 789	864	23	41	999	860	7,973	10 190
(c) Other works	--				963		2,376			274	127	--	3,740	3,740
VIII.—DEMARCATION IMPROVEMENT AND EXTENSION OF FORESTS—														
(a) Demarcation	189		69	258		133	343	--	109		1 760	369	2,714	2,972
(b) Compensation for land and rights						--	--	462	--	--	160	--	622	622
(c) Surveys and working plans	197	--		197	1 174	11	10 705	386					12,976	12,403
(d) Sowing and planting	10 639	--	1,043	11 682		5,691	35 514	3,353	1 638		1,081	90	45,377	57 059
(e) Protection from fire	5,305	--		5,303		2 661	6,271	822	63		1 940	--	11 757	17 060
(f) Other works	--	--	103	105	--	--	4,042	--	--		1 612	--	5 654	5,759
IX.—MISCELLANEOUS—														
(a) Refunds		282		282	90	--	--	--	--	526	--	20	686	916
(b) Law charges		771		771		50	2	--	--		--		52	823
(c) Other charges	1 107	2 070	107	3 284	3 969	78	886	456	75	23	823	15	6,054	9,338
Total A.—Conservancy and Works	2 32,946	44 499	8 471	2 85 916	49 314	91 567	3,43,909	24,179	17 064	14,100	1 46 532	10,972	6,97 837	9,83,503
B.—ESTABLISHMENT														
I.—SALARIES														
(a) Conservators	12,407			12,907	15 125								15,125	27 432
(b) Superior officers	19,178	7 870	3 000	29 978	25 181	8 860	9,516	2,400	7,200	9 400	9 630	6,787	78,944	1 08 922
(c) Subordinate forest and depôt establishments	7 173	7 631	2,430	17 234	9 246	6 343	8,607	3 590	1 717	3 844	6 465	3 837	43 649	60 883
(d) Office establishments	8,676	5,830	1 758	16,266	15 697	3 429	3,971	1,801	1 078	1,916	2 690	1,510	32,192	48,398
(e) Deputation and special allowances	--			--		487					--		487	487
II.—TRAVELLING ALLOWANCES—														
(a) Conservators	1 752			1 752	2,408	--	--					--	2,408	4 160
(b) Superior officers	2,768	2,053	1 027	5,848	2,610	2,109	5 176	1 877	949	1 089	1 445	1 735	16 940	22,778
(c) Subordinate forest and depôt establishments	1 274	666	333	2,273	1 056	1,352	1 698	263	468	1,536	756	1,059	8,176	10 449
(d) Office establishments	142	13	70	225	321	459	403	91	67	232	106	165	1,814	2 039
III.—CONTINGENCIES.														
(a) Stationery		--	--	--	46	--	5	1		--	2		54	54
(b) Carriage of tents and records	111	31	--	142	7	14	6				1		28	167
(c) Rents rates, and taxes	48	29		77	3 003	13	259	93	417	120	23	40	3,948	4,025
(d) Pay of police guards	--			--	--					--				
(e) Official postage	144	99	26	263	318	60	166	70	61	101	60	32	868	1 131
(f) Sundries	621	86	123	1 030	607	319	892	393	166	243	74	161	3,055	4 085
Total B.—Establishments	54 396	24,223	8,767	87 395	75,825	23 472	30,699	10 539	12,121	18 471	21 222	15 296	2 07 635	2,95,030
GRAND TOTAL OF EXPENDITURE	2,87 342	68,731	17,338	3,73,311	1,25 139	1 15 039	3,74 608	34,708	29,185	32 571	1 67 754	26,268	9 05,272	12,78,583

CALCUTTA
The 9th June 1890.

J BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller-General's Office.

Dr ANNUAL FORM NO 59 (PRESCRIBED).—*Account-current for the year 1889-90.* *Cr.*

TENASSERIM CIRCLE		Rs. A. P.	Rs. A. P.
To Cash balance			416 12 7
To VIII—Assessed Taxes—			
Income-tax deductions from salaries			1,525 15 11
Revenue as per Annual Summary Form No 58			7,33,557 15 3
To Service Funds—			
Civil Fund, Ordinary, Bengal			
Civil Fund, Additional, Bengal			
Military Fund, Bengal			
Military Fund, Madras			
Military Orphan Fund, Bengal			
Uncovenanted Service Family Pension Fund, Bengal		1,359 12 0	
General Family Pension Fund			
Hindu Family Annuity Fund			
			1,359 12 0
To Deposits			
To Forest Cash Remittances (Local)—			
Forest cheques drawn		3,65,203 5 1	
Inter-divisional transfers		550 5 6	
			3,65,753 10 7
To Advances recoverable			1,03,164 0 2
Suspense			
To Account-current other (Governments)—			
Remittances from Government of India			
To Inter-departmental Transfers—			
Public Works Department		268 6 9	
Military Department, Bengal		18 7 4	
Military Department, Madras			
To Civil Department—	Rs A P		
Jails	61 0 0		
Mathematical Instrument Department	325 3 0		
Miscellaneous	14 0 0		
Survey of India Department	28 6 0		
		428 9 0	709 9 1
Total			12,06,487 11 7

TENASSERIM CIRCLE		Rs A P	Rs A P
By Expenditure as per Annual Summary Form No 58			3,73,312 1 9
Deposits			
By Forest Cash Remittances (Local)—			
Remittances to treasuries		6,93,309 2 5	
Inter-divisional transfers		612 0 4	
			6,93,921 2 9
By Advances recoverable			97,779 10 7
By Suspense			
By Account-current (other Governments)—			
Remittances to the Government of India			3,536 2 3
By Inter-departmental Transfers—			
Public Works Department, other branches		230 0 0	
Military Department, Madras		24,305 5 10	
Military Department, Bombay		6,002 13 9	
By Civil Department—			
Jail	Rs. A. P. 6,235 7 0		
Miscellaneous	965 12 0		
		7,201 3 0	
			37,639 6 7
By Cash balance			309 4 3
Total			12,06,487 11 7

CALCUTTA:
The 30th May 1890.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller-General's Office.

Dr. ANNUAL FORM NO. 59 (PRESCRIBED).—*Account-current for the year 1889-90.* *Cr.*

PEGU CIRCLE.	Rs. A. P.	Rs. A. P.
To Cash balance		1,318 0 2
To VIII.—Assessed Taxes—		
Income-tax deductions from salaries	.....	3,405 7 11
Revenue as per Annual Summary Form No. 58	.....	24,01,157 13 1
To Service Funds—		
Civil Fund, Ordinary, Bengal	.....	.....
Civil Fund, Additional, Bengal	.....	.....
Military Fund, Bengal	.....	.....
Military Fund, Madras	.....	.....
Military Orphan Fund, Bengal	.....	.....
Uncovenanted Service Family Pension Fund, Bengal	.....	1,137 8 0
General Family Pension Fund	.....	.....
Hindu Family Annuity Fund	.....	.....
To Deposits	.....	.....
To Forest Cash Remittances (Local)—		
Forest cheques drawn	8,83,170 10 10	
Inter-divisional transfers	1,02,621 2 3	
		9,85,791 13 1
To Advances recoverable	.....	3,66,712 7 9
Suspense	.....	439 10 9
To Account-current (other Governments)—		
Remittances from Government of India	686 0 0	
		686 0 0
To Inter-departmental Transfers—		
Public Works Department	.....	
Military Department, Bengal	424 5 0	.....
Military Department, Madras	446 13 3	.....
Marine Department, Bombay	2 8 0	.....
To Civil Department—		
Jails	312 0 0	
Mathematical Instrument Department	148 2 0	
Survey of India Department	354 0 0	
Miscellaneous	256 0 0	
		2,243 12 3
Total		37,62,938 4 0

PEGU CIRCLE.	Rs. A. P.	Rs. A. P.
By Expenditure as per Annual Summary Form No. 58	.....	9,05,973 9 11
Deposits	.....	.....
By Forest Cash Remittances (Local)—		
Remittances to treasuries	21,77,391 14 6	
Inter-divisional transfers	1,03,399 14 7	
		22,80,791 13 1
By Advances recoverable	.....	3,47,274 15 10
Suspense	.....	6 5 0
By Account-current (other Governments)—		
Remittances to the Government of India	475 4 0	
Remittances to the Government of Madras	99,878 11 4	
		1,00,353 15
By Inter-departmental Transfers—		
Public Works Department, State Railways	9,105 14 10	
Telegraph Department	55 0 0	
Marine Department, Bombay	72,900 15 1	
Civil Department, Jail	46,232 3 8	
Civil Department, Miscellaneous	348 7 6	
		1,28,642 9 1
By Cash balance	.....	595 15 9
Total	.....	37,62,938 4 0

CALCUTTA
The 30th May 1890.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller-General's Office

Dr. ANNUAL FORM NO 59A [PRESCRIBED].—*Account-current for the year 1889-90.* *Cr.*

	Tenasserim circle.	Pegu circle.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
To Cash balance	416 12 7	1,318 0 2	1,734 12 9
To VIII.—Assessed Taxes—			
Income-tax deductions from salaries	1,525 15 11	3,403 7 11	4,931 7 10
Revenue as per Annual Summary Form No. 58 ...	7,83,557 15 3	24,01,157 13 1	31,84,715 12 4
To Service Funds—			
Civil Fund, Ordinary, Bengal	.....	.....	.....
Civil Fund, Additional, Bengal	.....	.....	.....
Military Fund, Bengal	.....	.....	.....
Military Fund, Madras	.....	.....	.....
Military Orphan Fund, Bengal	.....	.....	.....
Uncovenanted Service Family Pension Fund, Bengal	1,359 12 0	1,137 3 0	2,496 15 0
General Family Pension Fund	.....	.....	.....
Hindu Family Annuity Fund	.....	.....	.....
To Deposits	.....	.....	.....
To Forest Cash Remittances (Local)—			
Forest cheques drawn	3,65,203 5 1	8,83,170 10 10	12,48,373 16 11
Inter-divisional transfers	550 5 6	1,02,621 2 3	1,03,171 7 9
Advances recoverable	1,03,164 0 2	3,66,712 7 9	4,69,876 7 11
Suspense	.....	485 10 9	485 10 9
To Account-current (other Governments)—			
Remittances from Government of India	.....	686 0 0	686 0 0
To Inter-departmental Transfers—			
Military Department, Bengal	262 8 9	424 7 0	686 13 9
Military Department, Madras	18 7 4	446 13 3	465 4 7
Marine Department, Bombay	.....	2 8 0	2 8 0
To Civil Department—			
Jails	61 0 0	312 0 0	373 0 0
Mathematical Instrument Department	325 3 0	448 2 0	773 5 0
Miscellaneous	14 0 0	256 0 0	270 0 0
Survey of India Department	28 6 0	354 0 0	382 6 0
Total ...	12,06,487 11 7	37,62,938 4 0	49,69,425 15 7

	Tenasserim circle	Pegu circle.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
By Expenditure as per Annual Summary Form No 58 ...	3,73,313 1 2	9,05,271 9 11	12,78,584 11 1
Deposits	.....	.....	.....
By Forest Cash Remittances (Local)—			
Remittances to treasuries	5,93,309 2 5	21,77,391 14 6	28,70,701 0 11
Inter-divisional transfers	612 0 4	1,03,399 14 7	1,04,011 14 11
Advances recoverable	97,779 10 7	3,47,274 15 10	4,45,054 10 5
Suspense	.....	6 5 0	6 5 0
By Account-current (other Governments)—			
Remittances to the Government of India	3,536 2 3	475 4 0	4,011 6 3
Remittances to the Government of Madras.	.....	99,878 11 4	99,878 11 4
By Inter-departmental Transfers—			
Public Works Department, State Railways	.....	9,105 14 10	9,105 14 10
Public Works Department, other branches	220 0 0	.....	220 0 0
Public Works Department, Madras	24,205 5 10	.....	24,205 5 10
Public Works Department, Bombay	6,002 13 9	.....	6,002 13 9
Telegraph Department	.....	55 0 0	55 0 0
Marine Department, Bombay	.....	72,900 15 1	72,900 15 1
Military Department	.....	.....	.....
Jail	6,235 7 0	46,232 3 8	52,467 10 8
Miscellaneous	965 12 0	348 7 6	1,314 3 6
Civil Department	.....	.....	.....
By Cash balance	309 4 3	595 15 9	905 4 0
Total .	12,06,487 11 7	37,62,938 4 0	49,69,425 15 7

ANNUAL FORM No 60 [PRESCRIBED] —*Revenue received and Outstandings on account of Revenue for the year 1889 90*

Division	Particulars	Outstandings at commencement of year	Value of sales and other revenue during year	Total	Amount realised during year	Balance due to the department at end of year	Remarks
		Rs A P	Rs A P	Rs A P	Rs A P	Rs A P	
ATAPAN	Timber and other produce, &c	1,405 0 0	4,79 256 7 3	4,80 661 7 3	4,74,422 7 3	6,239 0 0	
KADO	Ditto		2,40,523 13 0	2,40,523 13 0	2,40,523 13 0		
SOUTH TENASSERIM	Ditto		18,611 11 0	18 611 11 0	16,611 11 0		
	Total Tenasserim Circle	1 405 0 0	7,38 391 15 3	7 39 96 15 3	7,33,557 15 3	6,239 0 0	
THAYETMYO	Timber and other produce		91 508 14 1	91,508 14 1	87 070 11 1	4 438 3 0	
PROME	Ditto		29 727 6 2	29 727 6 2	29 727 6 2		
THARRAWADDY	Ditto		3,51 159 10 3	3,51 159 10 3	3,51,159 10 3		
RANGOON	Ditto		31 415 9 10	31 415 9 10	31 415 9 10		
TOUNGOO	Ditto	452 4 6	2,91,543 3 2	2,91,995 7 8	2,91,995 7 8		
SHWEGYIN	Ditto		75,251 12 4	75,251 12 4	75 251 12 4		
WESTERN	Ditto		68,978 3 0	68,978 3 0	68,978 3 0		
AGENCY	Ditto	67,730 8 0	14,02,010 4 9	14,76,740 12 9	14 05,559 0 9	11,181 12 0	
	Total Pegu Circle	68,182 12 6	23 48,594 15 7	24,16,777 12 1	24 01 157 13 1	15,619 15 0	
	GRAND TOTAL LOWER BURMA	69 587 12 6	30 86,986 14 10	31 56,574 11 4	31,34 715 12 4	21 858 15 0	

ANNUAL FORM No 61 PRESCRIBED —*Statement of Outstandings and Liabilities on account of Contractors and Disbursers for the year 1889 90.*

Division.	Department Debtor.			Department Creditor.			Balance due		Remarks
	At commencement of year	Recoveries in cash and value of supplies and work done during the year	At close of year	At commencement of year	Payments made during year	At close of year	To department (outstandings)	By department (liabilities)	
	Rs. A. P	Rs A. P	Rs. A. P	Rs. A P	Rs. A. P	Rs. A P	Rs. A. P	Rs A. P	
Ataran		96,929 12 2	96,929 12 2	17 222 10 4	90 046 0 10	1 07 268 11 2	11,038 15 6		
Kado		4,210 8 0	4,210 8 0	1 403 10 0	3,180 0 0	4,583 10 0	373 2 0		
South Tenasserim		2,723 12 0	2 723 12 0	30 0 0	4,553 9 9	4,583 9 9	1,859 13 9		
Total Tenasserim Circle		1 03,864 0 2	1,03,164 0 2	18,656 4 4	97 779 10 7	1 16 435 14 11	13 271 14 9		
Agency		5,007 7 1	5,007 7 1	492 10 2	5,319 13 2	5,802 7 4	795 0 3		
Rangoon		41,765 12 8	41,765 12 8	1 203 6 7	41 648 4 2	42,851 10 9	1 086 14 1		
Tharrawaddy		2 09 456 4 5	2,09 456 4 5	23,510 3 4	2,06,731 6 1	2,30 241 9 5	20 785 5 0		
Prome		28 400 15 0	28 400 15 0	4,296 3 7	24 973 2 1	29,279 5 8	871 6 8		
Thayetmyo		12,369 15 7	12,369 15 7		12,658 10 1	12,658 10 1	288 10 6		
Western		5 879 14 3	5,879 14 3	462 10 7	5 666 15 3	6,129 9 10	249 11 7		
Toungoo		60,156 3 2	60,156 3 2	22 874 5 2	46 600 13 5	69 475 2 7	9,318 15 5		
Shwegyin		3 675 15 7	3 675 15 7		3 675 15 7	3,675 15 7			
Total Pegu Circle		3,66,712 7 9	3.66 712 7 9	52,833 7 5	3 47,274 15 10	4 00,107 7 3	33,394 15 6		
GRAND TOTAL LOWER BURMA		4,69 976 7 11	4,69 976 7 11	71 489 11 9	4 45,054 10 5	5 16,543 6 2	46,666 14 3		

CALCUTTA
The 9th June 1890.

J. BRIDGNELL, *Chief Superintendent,*
in charge Forest Account Branch, Comptroller General's Office.

ANNUAL FORM NO. 62 [PRESCRIBED].—*Statement showing the Financial Results in the Tenasserim and Pegu Circles for the year 1889-90.*

Division.		Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection, and improvement of forests.	Total.		Remarks.
		Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
TENASSERIM	Ataran	47,747	30,004	18,698	6,197	5,554	66,445	41,755	
	East Salween	2,60,537	1,15,887	11,128	7,487	14,874	2,71,665	1,38,248	
	West Salween	1,33,925	83,836	2,387	2,519	15,610	1,36,312	1,01,965	
	Kado	.....	.....	2,40,524	73,020	.....	2,40,524	73,020	
	South Tenasserim	3,682	11,191	14,930	3,298	3,847	18,612	18,324	
	Total	4,45,891	2,40,918	2,87,667	92,509	39,885	7,33,558	3,73,312	
PEGU	Thayetmyo	6,560	27,917	60,592	9,274	10,067	67,152	47,248	
	Prome	48,410	24,765	23,246	5,935	10,176	71,656	40,876	
	Tharrawaddy	9,32,583	3,16,805	1,21,858	20,097	73,737	10,54,441	4,10,639	
	Rangoon	2,98,919	1,02,612	25,008	14,834	21,677	3,26,927	1,39,123	
	Toungoo	4,07,967	1,61,790	2,71,294	9,090	20,866	6,79,261	1,91,746	
	Shwegyin	18,515	19,766	59,594	7,658	7,873	78,109	35,297	
	Western	15,282	18,801	55,421	9,315	7,466	70,703	35,582	
	Agency	5,816	4,742	27,073	.....	.....	32,889	4,742	
	Total	17,34,072	6,77,218	6,67,086	76,203	1,51,852	24,01,158	9,05,273	
GRAND TOTAL LOWER BURMA		21,79,963	9,18,136	9,54,753	1,68,712	1,91,737	31,34,716	12,78,585	

APPENDIX A.

Statement showing the cost of feed of Elephants of the Forest Department for the year 1889-90 as compared with that of the Commissariat Department for the same period.

Division.	Number of elephants at commencement of the year.	Casualties during the year.	Number of elephants at close of the year.	Cost of feed.	Cost of keep, including gear, &c.	Cost of medicines.	Total expenditure for the year.	Average monthly cost per animal of the Forest Department.	Average monthly cost per animal of the Commissariat Department.	Amount paid by officers for carriage elephants.	Value of labour in cash receipts and work performed.	Remarks
TENASSERIM CIRCLE.				Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Ataran and Agency	5*	...	7	962 2 5	1,202 0 0	.....	2,164 2 5†	33 4 3	42 14 6	84 0 0	1,930 0 0	* Includes a calf.
East Salween	1	...	2	.....	322 5 6	.....	322 5 6			.....	340 0 0	† Exclusive of a calf and of two elephants of Conservator of Forests.
West Salween	1	...	1	.....	308 0 0	.....	308 0 0			9 0 0	650 0 0	
Total ...	7	...	10	962 2 5	1,832 5 6	.....	2,794 7 11	.....	.....	93 0 0	2,930 0 0	
PEGU CIRCLE.												
Thayetmyo	...	...	1	.....	429 0 6	.....	429 0 6	.....	.....	53 0 0	612 0 0	
Prome	2	...	2	.....	460 12 0	4 0 0	464 12 0	.....	.....	242 0 0	796 0 0	
Tharrawaddy	10	...	11	4 11 0	2,722 11 9	47 7 4	2,774 14 1	.....	.....	311 0 0	7,640 0 0	
Rangoon	2	...	2	26 13 6	615 2 8	5 0 0	647 0 2	37 15 7	49 1 9	105 0 0	660 0 0	
Toungoo	1	...	2	.....	623 10 2	10 13 0	634 7 2	.....	.....	88 0 0	1,968 0 0	
Shwegyin	2	...	2	8 0 0	635 0 7	32 12 0	675 12 7	.....	.....	143 0 0	950 0 0	
Western	4	...	3	7 8 0	956 2 10	12 11 0	976 5 10	.....	.....	9 0 0	3,201 0 0	
Agency	12	...	13	5,033 11 11	4,039 12 5	273 4 0	9,346 12 4	.....	.....	.....	25,316 4 0	
Total ...	33	...	37	5,080 12 5	10,482 4 11	385 15 4	15,949 0 8	.....	.....	951 0 0	41,343 4 0	
GRAND TOTAL LOWER BURMA ..	40	...	47	6,042 14 10	12,314 10 5	385 15 9	18,743 8 7	.....	.....	1,044 0 0	44,263 4 0	

APPENDIX B.

Lower Burma, Tenasserim and Pegu Circles.

List of Buildings of which the cost exceeds Rs. 200.

Division.	No.	Name of building.	Station	Remarks.
		Tenasserim Circle.		
		(a) On which no rent is paid.		
Ataran	1	Forest office	Moulmein.	
	3	Elephant-sheds		
	1	Paddy-shed		
	1	Rest-house	Natchaung.	
	1	Guard-house	Nantè	
	4	Guard-houses	Moulmein.	
East Salween	1	Rest-house	Gyaing on the Hatungthawaw.	
	1	Guard-house	Gyaing	
South Tenasserim	1	Office	Mergui.	
	1	Guard-house	Tavoy.	
Kado	1	Guard-house	Martaban.	
	1	Guard-house	Moulmein.	
	3	Office and two out-houses	Kado.	
	1	Lascar's house		
	1	Upper guard-house ...		
	1	Lower guard-house ...		
	1	Coal-shed	Battery Point.	
	1	Bungalow	Shwegun.	
	1	Forest ranger's quarters ...		
		(b) On which rent is paid.		
East Salween ...	1	Bungalow	Kawkareik.	
		Pegu Circle.		
		(a) On which no rent is paid.		
Thayetmyo ...	1	Rest-house	Tindaw ...	From Prome.
Prome	2	Rest-houses	Kadinngasin and Taunglè.	
	1	Ranger's quarters ...	Kadinngasin and Taunglè.	
	1	Elephant-shed	Migyaungyè	
Tharrawaddy	1	Forest office	Tharrawaddy.	
	1	Forest bungalow	Paungdè.	
	7	Rest-houses	We, Seywa, Kaunglaungdaing, Kwingyi, Theuk, Yethp, and Kaugyi.	
Rangoon	1	Forest bungalow	Pegu.	
	3	Revenue stations	Tawlatè, Hlegu, and Pegu.	
	2	Rest-houses	Palôn and Kinbadi.	
Toungoo	1	Forest office	Toungoo.	
	6	Rest-houses	Tabetkwè Zibyubin, Banbwèbin, Minyo, Pathichaung, and Pyunchaung.	
	1	Overseer's quarters ...	Toungoo.	
Shwegyin	1	Rest-house	Myitkyo	
	1	Depôt gaing's quarters ...		
Agency	1	Officer's quarters	Kemmendine.	
	1	Overseer's house ...		
	6	Guard-houses		
	1	Mahout's quarters ..		
	1	Elephant-shed		
	1	Seasoning-shed		
		(b) On which rent is paid.		
Prome ...	1	Forest office	Prome.	
Tharrawaddy ...	1	First-class bungalow ...	Tharrawaddy.	
Toungoo ..	1	First-class bungalow ...	Toungoo	
Shwegyin ...	1	Forest officer's quarters ...	Shwegyin.	

APPENDIX C.

Statement showing the Exports of Timber and other Forest Produce from the Port of Rangoon for the year 1889-90 (Private and Government).

Articles and countries to which exported.		Rangoon. Quantity.	Rangoon. Value.
			Rs.
Wood—			
Teak—			
To United Kingdom ...	C. tons	36,461	37,23,011
" Germany, Bremen ...	"	58	5,800
" Germany, Hamburg ...	"	60	6,600
" Malta ...	"	5	625
" Egypt, Port Said ...	"	1,279	1,30,193
" Ceylon ...	"	1,108	82,130
" Straits Settlements ...	"	149	17,005
" Bengal, Calcutta ...	"	9,905	6,79,769
" Bengal, other ports ...	"	57	5,519
" Bombay, Bombay ...	"	36,280	22,51,684
" Madras, Madras ...	"	12,859	8,31,040
" Madras, other ports ...	"	2,119	1,70,344
" Provincial ports ...	"	2,761	2,44,851
" Pondicherry ...	"	314	27,305
Total ...		103,560	61,84,843
Other timber—			
To United Kingdom ...	Tons	34	3,240
" Ceylon ...	"	1	25
" Siam ...	"	1	76
" Straits Settlements ...	"	½	35
" Cochin-China, Saigon ...	"	2	188
" Bengal, Calcutta ...	"	258	14,858
" Madras, Madras ...	"	201	11,200
" Madras, other ports ...	"	1	20
" Provincial ports ...	"	31	1,014
Total ...		529½	30,658
Firewood—			
To Bengal, other ports ...	Tons	2	10
" Madras, other ports ...	"	26	143
Total ...		28	153
Sandal-wood—			
To Bengal, Calcutta ...	Value	.....	405
" Provincial ports ...	"	.....	1,276
Total ...		.....	1,681
Teak Railway krys—			
To Madras, other ports ...	Cwt.	920	3,680
Wooden sleepers—			
To Bengal, Calcutta ...	Cwt.	39,950	1,18,629
" Madras, other ports ...	"	118	403
" Pondicherry ...	"	3,740	10,027
Total ...		40,808	1,88,049
Manufactures of—			
To United Kingdom ...	Value	.....	11
" Ceylon ...	"	.....	16,125
" Straits Settlements ...	"	.....	10,093
" Bengal, Calcutta ...	"	.....	5,855
" Bengal, other ports ...	"	.....	3,578
" Sind, Karachi ...	"	.....	5,000
" Madras, Madras ...	"	.....	2,410
" Madras, other ports ...	"	.....	35,200
" Provincial ports ...	"	.....	11,308
" Pondicherry ...	"	.....	53,345
Total ...		.....	1,43,533
Gums and Resins—			
Cutch and gambier—			
To United Kingdom ...	Cwt.	106,569	16,12,719
" France, Havre ...	"	201	3,018
" Germany, Bremen ...	"	120	1,800
" Holland ...	"	3,190	50,980
" Italy, Genoa ...	"	2,500	37,500
" Egypt, Port Said ...	"	27,003	4,31,267
" St. Helena ...	"	4,000	84,000
" Ceylon ...	"	1,198	24,191
" China, Treaty ports ...	"	9	133
" Straits Settlements ...	"	6,063	91,680
" Bengal, Calcutta ...	"	66,153	10,72,568
" Bengal, other ports ...	"	14	330
" Bombay, Bombay ...	"	17,630	2,26,959
" Madras, Madras ...	"	938	18,042
" Madras, other ports ...	"	2,293	46,189
" Provincial ports ...	"	218	5,710
" Pondicherry ...	"	15	320
Total ...		241,285	37,58,213
Lac—			
Stick—			
To Bengal, Calcutta ...	Cwt.	173	3,053
" Madras, Madras ...	"	969	2,142
" Madras, other ports ...	"	940	33,677
" Provincial ports ...	"	142	3,307
Total ...		2,244	62,181

APPENDIX C.

Statement showing the Exports of Timber and other Forest Produce from the Port of Rangoon for the year 1889-90. (Private and Government)—concluded.

Articles and countries to which exported.		Rangoon.	
		Quantity.	Value.
			Rs.
Oils—			
Wood—			
To United Kingdom	Galls.	314	320
" Bengal, Calcutta	"	2	5
" Bombay, Bombay	"	100	125
" Madras, Madras	"	18,093	11,292
" Madras, other ports	"	1,047	782
" Provincial ports	"	485	625
" Pondicherry	"	280	225
Total ...		20,311	13,414

APPENDIX C (*a*).

Statement showing the Imports of Timber and other Forest Produce into the Ports of Moulmein and Rangoon for the year 1889-90 (Private and Government).

Articles and countries to which imported.		Moulmein.		Rangoon.	
		Quantity.	Value.	Quantity.	Value.
			Rs.		Rs.
Wood—					
Teak—					
From Provincial ports	C. tons	2,699	2,34,065	3,905	3,01,379
Other timber—					
From United Kingdom	Tons	.....	.....	46	3,324
" United States	"	.....	.....	7	200
" Straits Settlements	"	.....	.....	15	105
" Bengal, other ports	"	.....	.....	1	30
" Provincial ports	"	112	1,844	1,341	48,475
Total ...		112	1,844	1,410	52,224
Firewood—					
From United States	Tons	.....	.....	10	200
" Siam	"	.....	.....	106	1,895
" Straits Settlements	"	.....	.....	292	3,512
" Provincial ports	"	3	22	92	384
Total ...		3	22	500	5,983
Sandal-wood—					
From Bengal, Calcutta	Value	.....	125	.....	50
" Bombay, Bombay	"	.....	850	.....	16,520
" Madras, Madras	"	.....	75	.....	9,693
" Madras other ports	"	.....	30	.....	10
" Provincial ports	"	.....	1,088	.....	4,228
Total ...		.....	2,168	.....	30,501
Manufactures of—					
From United Kingdom	Value	.....	.....	.....	14,491
" Germany	"	.....	.....	.....	300
" Ceylon	"	.....	.....	.....	10
" Straits Settlements	"	.....	10,058	.....	75,499
" Bengal, Calcutta	"	.....	206	.....	90,897
" Bengal, other ports	"	.....	18	.....	900
" Bombay, Bombay	"	.....	5	.....	829
" Madras, Madras	"	.....	.....	.....	440
" Madras, other ports	"	.....	31	.....	605
" Provincial ports	"	.....	6,083	.....	71,535
Total ...		.....	16,396	.....	2,55,504
Gums and Resins—					
Cutch and Gambier—					
From United Kingdom	Cwt.	.....	.....	3	54
" Straits Settlements	"	.....	.....	1	30
" Bengal, Calcutta	"	.....	.....	87	1,755
" Bombay, Bombay	"	6	120	.....	.....
" Provincial ports	"	225	5,336	.....	.....
Total ...		231	5,456	91	1,859
Lac—					
Stick—					
From Bengal, Calcutta	Cwt.	.....	.....	2	60
" Madras, Madras	"	.....	.....	2	22
" Provincial ports	"	19	531	.....	.....
Total ...		19	531	94	82
Oils—					
Wood—					
From Straits Settlements	Galls.	.....	.....	703	1,010
" Provincial ports	"	2,381	1,540	18,745	5,060
Total ...		2,381	1,540	19,448	6,070

APPENDIX C (1)

Statement showing the Exports of Teak Timber from Moulmein for the year 1889-90

Countries to which exported		Quantity	Value
			Rs.
United Kingdom	Tons	23 875	27 36 448
Belgium		50	6 035
France Marseilles		488	3 904
Germany Bremen		50	6 031
Italy Naples		401	46 5 0
Italy Spezzia		708	86 488
Spain Gibraltar		668	1 28 707
Egypt Port Said		2 016	2 41 10
Mauritius		720	88 300
Ceylon		441	97 731
Straits Settlements		46	7 100
Bengal Calcutta		21 169	15 8 1 12
Bengal other ports		310	2 707
Bombay Bombay		18 810	19 78 098
Madras Madras		1 [illegible]	1 19 140
Madras other ports		4 [illegible]	2 [illegible] 107
Provincial ports		8 029	2 75 771
Pondicherry		2 448	1 04 214
	Total	80 871	70 05 867

APPENDIX C (2a)

Statement showing the Exports of Shingles Railway Keys and Woods of other kinds from Moulmein, Tavoy, and Mergui for the year 1889-90

Articles	Whither exported		Moulmein		Tavoy		Mergui	
			Quantity	Value	Quantity	Value	Quantity	Value
				Rs		Rs		Rs
Teak shingles sawn and split	United Kingdom	Tons		340				
	France Marseilles			190				
	Egypt Port Said			992				
	Mauritius			37 848				
	Ceylon			19 630				
	Straits Settlements			24 697				
	Bengal Calcutta			36 773				
	Madras other ports			521				
	Provincial ports			65 607				
	Pondicherry			43				
Teak railway keys	Bengal Calcutta	Cwt	4 879	11 045				
	Bombay Bombay		2 190	15 758				
Other timber	United Kingdom	Tons	56	2 717				
	Bengal Calcutta		3 007	161 791	133½	5 950		
	Bengal other ports		35	2 043				
	Bombay Bombay		25	26,449				
	Madras Madras		10	10 130				
	Madras other ports		139	9 473				
	Provincial ports		1 891	66 039			41	1 779
	Pondicherry		1	30				

APPENDIX C (2b)

Statement showing the Exports of Boat hulls and other Timber from the Port of Tavoy for the years 1888-89 and 1889-90

Articles	Whither exported		1888-89		1889-90	
			Quantity	Value	Quantity	Value
				Rs		Rs
Boat hulls	Provincial ports	No	61	61 500	80	81 480
Other timber	Bengal Calcutta	Tons			133½	5 950
	Provincial ports		229	6 955		
	Total			68 455		87 430

APPENDIX C (3).

Statement showing the Exports of Minor Forest Produce from the Ports of Mergui, Tavoy, and Moulmein for the year 1889-90.

Articles.	Whither exported.	Moulmein.		Tavoy.		Mergui.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			Rs.	Pieces.	Rs.	Viss.	
Saindal-wood	Provincial ports	...	91	1,000	20	13,550	4,553
Wood-oil	Bengal, Calcutta ... Galls.	8	12	...	...	...	...
	Madras and other ports "	458	410	...	...	...	...
	Provincial ports ... "	10	15	...	...	46,235	7,081
Tanning bark ...	Ditto ... Cwt.	...	...	6,026	1,017	...	...
Ondong bark ...	Ditto ... "	...	...	1,875	3,352	...	...
Firewood	Ditto ... "	...	...	5	12	No. 11,850	807
Cardamom	Ditto ... "	...	...	102	4,003	22	1,096
Dammer torches ...	Ditto ... No.	...	...	1,000	25	625,900	14,456
Kanyin-fruit	Ditto ... Bkts.	...	...	809	720	..	...
Akyaw-wood	Ditto ... Viss.	...	..	...	...	1,947	6,560
Pyu bark	Ditto ... "	...	...	...	...	110,250	693
Rattans	Ditto ... "	...	...	...	...	9,355,200	32,076
Red-wood	Ditto ... "	...	...	...	...	71,610	3,585
Karawè leaves ...	Ditto ... "	...	...	...	...	8,860	272
Dammer	Ditto ... "	...	...	...	...	900	111
Honey	Ditto ... "	...	...	...	...	7,060	1,524
Beeswax	Ditto ... "	...	...	...	...	40	120
Fibre	Ditto ... "	...	...	...	...	13,180	865

APPENDIX C (4).

Statement showing the Imports of Timber and other Forest Produce for the year 1889-90 into the Ports of Moulmein, Tavoy, and Mergui.

Articles.	Whence imported.	Moulmein		Tavoy.		Mergui.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			Rs.		Rs.		Rs.
Teak timber	Provincial ports ... C. ft.	...	...	2	5	9	16
Teak shingles	Ditto ... ... No.	...	...	28,000	883	...	...
Wood-oil	Ditto ... . Galls.	...	...	835	406	...	...
Fire-wood	Ditto ... ... Tons	...	...	2½	120	...	...
Tanning bark	Ditto ... ... Cwt.	...	...	31	5	...	..
Vegetable fibre for cordage.	Ditto ... ... "	...	...	32	427	...	...
Dammer torches ...	Ditto ... ... No.	...	...	300	15	5,000	50
Sandal-wood	Ditto ... ... Viss	...	...	...	...	400	202

APPENDIX D.

TENASSERIM CIRCLE.

Statement of Teak Trees girdled during the season 1889-90.

Division.	Girdling officer.	Revising officer.	Forest district.	Locality.	Number of teak trees girdled.	Remarks.
East Salween.	Mr. T. A. Hauxwell, Deputy Conservator of Forests.	Mr. T. A. Hauxwell, Deputy Conservator of Forests.	Kyôuket reserve	North of Tinyalu chaung	62	
				On the Luka chaung	7	
				On the Tanan chaung	117	
				Between Kyôuket and Chibawlu chaungs	170	
				West of Kanayôlé chaung	51	
				Total Kyôukot ...	407	
			Kyôuket gorge	Between Tinyalu and Chibawko chaungs	197	
				South of Tanan chaung	24	
				Total Kyôuket Gorge ...	221	
			Megla reserve	On the both banks of the Htiwamé chaung	28	
				On feeder of Htiwamé chaung	1	
				Total Megla ...	29	
			Ônkarein reserve	On feeder of Tablukama chaung	10	
				On Htitablu chaung	46	
				Total Ônkarein ...	56	
				GRAND TOTAL TENASSERIM CIRCLE ...	713	

PEGU CIRCLE.

Statement of Teak Trees girdled during the season 1889-90.

Division.	Girdling officer.	Revising officer.	Range.	Forest district.	Locality.	Number of teak trees girdled.	Total.	Remarks
Thayetmyo.	Maung Pau Bu, Forester.	Mr. F. W. Thellusson, Deputy Conservator of Forests.	Myudé ...	Bangôn ...	Near Hlandin village on both sides of the Bangôn chaung, up to Kyetthungin village.	641		
					Near Talaba village	25		
					Total Thayetmyo ...	...	666	Outside reserves.
Prome.	Maung Aung, Forest Ranger.	Mr. H. Jackson, Deputy Conservator of Forests.	Nawin ...	Middle Nawin unreserved forests.	Kadumahla chaung, feeder of the middle Nawin.	307		
				North Nawin unreserved forests.	Kot chaung, feeder of the Sun chaung, tributary to the North Nawin chaung.	193		
					Total Prome ...	...	500	Outside reserves.
Thayawaddy.	Maung We, Forest Ranger.	Mr. P. J. Carter, Deputy Conservator of Forests.	Thônzè ...	Thônzè working circle.	Compartment No. 19	116		
					Compartment No. 32	160		
					Compartment No. 33	230		
					Compartment No. 34	163		
					Compartment No. 35	225		
					Compartment No. 41	54		
					Total Thônzè ...	964		
	Maung We, Forest Ranger.	Mr. P. J. Carter, Deputy Conservator of Forests.	Thônzè ...	Kon-Bilin working circle.	Compartment No. 30	250		
				Kadin-Bilin working circle.	Compartment No. 79	829		
					Compartment No. 61	159		
					Compartment No. 62	18		
					Total Kadin-Bilin ...	1,006		
	Maung We, Forest Ranger.	.....	Thônzè ...	Mokka working circle.	Compartment No. 45	434		
	Maung Tha Ka Do, Sub-Assistant Conservator of Forests.	Mr. P. J. Carter, Deputy Conservator of Forests.	...	Minhla working circle.	Compartment No. 5	34		
					Compartment No. 6	19		
					Compartment No. 7	78		
					Compartment No. 8	170		
					Compartment No. 9	161		
					Compartment No. 10	275		
					Total Minhla ...	737		
					Carried forward ...	3,301	1,166	

PEGU CIRCLE—continued.

Statement of Teak Trees girdled during the season 1889-90—continued.

Division.	Girdling officer.	Revising officer.	Range.	Forest district.	Locality.	Number of teak trees girdled.	Total.	Remarks.
					Brought forward ...	3,801	1,166	
Tharrawaddy—concld.	Maung Tha Ka Do, Sub-Assistant Conservator of Forests.	.....	...	Gamôn working circle.	Compartment No. 1	148		
					Compartment No. 2	153		
					Compartment No. 3	321		
					Compartment No. 4	200		
					Compartment No. 44	64		
					Compartment No. 47	95		
					Compartment No. 48	225		
					Compartment No. 49	140		
					Compartment No. 50	107		
					Compartment No. 51	91		
					Total Gamôn ...	1,544		
					Total Tharrawaddy ...	...	4,035	Inside reserves.
Rangoon.	Maung Gauk, Ranger.	Mr. F. J. Branthwaite, Assistant Conservator of Forests.	Pegu ...	Pegu	North Zamayi Karen Areas I and II	500		
	Mr. H. A. Houghton, Deputy Conservator of Forests.	.....	...	.....	Kadat reserve	502		
					Total Rangoon ...	...	1002	Inside reserves.
Toungôo.	Maung Chitsu, Forest Ranger.	Mr. J. Nisbet, Deputy Conservator of Forests.	Zeyawadi.	Bonkogwa ...	Ngaywe myaung forest	575		
					Subôk myaung forest	165		
					Salugyin forest	288		
					Thingyaing forest	43		
					Hledân forest	570		
					Kan myaung forest	347		
					Mogyoyik forest	564		
					Bongyibaung forest	168		
					Source of Bôndaung chaung	954		
					Total Bonkogwa ...	3,000		Outside reserves.
	Maung Hmin, Forest Ranger.	Mr. J. Nisbet, Deputy Conservator of Forests.	Bônmadi	Thaukyegat ...	Thayobalan Kyaungdawya forest	159		
					South of Kyaungdawya.	50		
					Thayoba chaung east of Gônwe reserve	50		
					East of Gônwe reserve and west of Zêbwegyi kyaw.	96		
					On the Zêbwegyi kyaw	40		
					East of Gônwe reserve	11		
					East of Zêbwegyi	70		
					Source of Thayeba and east of Gônwe reserve ...	25		
					North of Kyauk-o, Karen village	50		
					South of Kyauk-o, Karen village	90		
					North of Chaungmagne Lunbuwa	15		
					East of Chaungmagne	30		
					South of Kyetpwesing myaung	30		
					South of Mewa chaung	93		
					East of Mewa chaung	56		
					East of Subôk myaung	159		
					On the Subôk myaung kyaw	10		
					West of Mewa chaung	30		
					South of Subôk myaung	360		
					East of Subôk myaung	150		
					East of Mewa chaung	300		
					Eastern and Southern source of Mewa chaung ...	150		
					South of Mewa chaung and Kwinbintaung ...	50		
					Total Thaukyegat ...	2,000		Outside reserves.
	Maung Yaing, Forest Ranger.	...	Thagaya	Swa forest ...	Between Auk-chindu chaung and Thakut myaung	188		
					Kweko chaung and Aukchindu and Thakut myaung	487		
					Between Kweko chaung and Sawin chaung ...	903		
					Between Sawin chaung and Petwin chaung and Northern Panun chaungbya.	156		
					Between Panun and Singyan chaungs	20		
					Between Singyan chaung and Kyuin myaung ...	67		
					Between Kyuin myaung and Panun chaung ...	72		
					Between Panun chaung and Gnakônma myaung ...	19		
					Between Gnakônma myaung and Sayit myaung ...	70		
					Between Sayit and Masile myaungs	44		
					Between Siyu chaung lettet between Wadinwe chaung and Ngadauk Magyi myaung.	49		
					Between Siyu chaung lettet between Kyaukmwe, myaung and Bahan chaung.	39		
					Between Siyu chaung lettet between Yengan myaung and Bahan chaung.	9		
					North of Sagwe chaung between Yèe myaung ...	48		
					North and south of Myaungtha and between Tagyi chaung and Tangyi chaung.	129		
					Tagyi chaung lettet and east of Kun myaung ...	5		
					Between Kyat chaung and Myaukdaw chaung ...	8		
					Between Myokadaw and Myaungtha	32		
					Between Myaungtha and Ngaywe myaung ...	51		
					Total Swa forest ...	1,705		Outside reserves.
	Maung Yaing, Forest Ranger.	...	Thagaya	Saing Yène forest	Kinmun chaung lettot, east of Zibyu myaung ...	4		
					Between Zibyu myaung and Satha myaung ...	35		
					Between Satha myaung and Salu myaung ...	95		
					Between Salu myaung and Kinbun chaung ...	182		
					Between Kinbun chaung and Sayit myaung ...	125		
					Sayit myaung and Ngakugyi sakan	64		
					North bank of Kinmun chaung up to old frontier ...	15		
					Total Saing Yène forest ...	520		Inside reserves.
					Carried forward ...	7,135	7,103	

PEGU CIRCLE—concluded.

Statement of Teak Trees girdled during the season 1889-90—concluded.

Division.	Girdling officer.	Revising officer.	Range.	Forest district.	Locality.	Number of teak trees girdled.	Total.	Remarks
Toungoo—concluded.	Maung Yaing, Forest Ranger.	..	Thagaya	Kyaukmasin ...	Brought forward	7,815	7,103	
					Unreserved forests.—Between reserve boundary and Kyaukmasin chaung.	320		Outside reserves.
					Kyaukmasin reserve.—Between reserve boundary and Gnaywe myaung.	75		Inside reserves.
					Between Himannbin myaung and Gnaywe myaung.	460		
					Between Gnaywe myaung and Sanpettet myaung ...	116		
					Northern drainage of Wabaik chaung, west of Kadin Thonzin.	673		
					Northern drainage east of Kadin Thônzin up to reserve boundary.	688		
					West of Kyaukmasin chaung between Kyaukzin myaung and Myaung thangyi	32		
					Between Myaung thangyi and Pyutkya chaung ..	205		
					Between Pyutkya chaung and Kyaukmasin chaung	195		
					Between Kyaukmasin and Wanet chaung ..	86		
					East of Kyaukmasin chaung between Wanet myaung and Tawmyin myaung.	40		
					Total Kyaukmasin ...	2,700		
					Total Toungoo ...	...	10,015	
Shwegyin.	Maung Kyaw Dun, Ranger.	Mr. C. H. Hobart-Hampden, Deputy Conservator of Forests.	Bawni ...	Bawni	Along the Ngokto Kyaw between Gyo and Kyat chaung near the Yenwe chaung.	600		
					Total Shwegyin ...	...	600	Outside reserves.
Western.	Mr. H. B. Ward, Deputy Conservator of Forests.	...	Ôkpo ...	Henzada ...	North bank Naungathoomyauk chaung, above Chyaukpusat sakan.	102		
		...	...	...	On both banks of Thebyu stream and its tributaries, Thapan chaung, Ayoda chaung, and Letkôk chaung.	900		
					Total Western Division ...	...	1,002	Outside reserves.
					Total number girdled { Inside reserves ...	8,831		
					Total number girdled { Outside reserves ...	9,889		
					GRAND TOTAL PEGU CIRCLE ..		18,720	

APPENDIX E.

Statement of Outturn of Foreign Timber for the five years 1885-86 to 1889-90.

Name of Foreign State.	1885-86.						1886-87.						1887-88.					
	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.
Karenni	69,413	65,860	2,357	1,415	4,002	3,000	54,161	54,000	7,826	6,200	2,022	1,213	50,073	45,600	4,163	2,900	1,220	710
Mâhan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kyaingtaung	9,271	8,577	826	500	1,388	1,000	5,209	4,800	763	600	822	493	4,286	4,200	398	271	384	200
Mainglôngyi	10,730	10,608	281	130	1,502	990	9,462	9,300	1,334	1,300	580	389	12,508	12,500	1,781	1,400	253	196
Thaungyin	10,583	9,768	2,177	1,400	5,182	2,600	16,717	16,000	17,507	13,000	1,347	800	15,242	14,500	10,607	7,500	2,931	1,500
Dagwin	3,865	4,067	1,199	1,000	72	50	1,454	1,500	457	400	19	12	1,889	1,800	1,563	940	29	16
Zimmè	3,469	3,145	713	500	1,106	650	11,165	10,100	1,163	900	1,210	605	7,274	7,277	1,009	620	903	460
Mehaungthun...	1,444	1,473	109	80	443	280	18,795	17,600	1,696	1,400	204	195	2,330	2,060	161	100	24	13
Maingpan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mônpè	8	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maingtun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Upper Thaungyin	...	...	...	...	...	...	220	200	37	20	...	...	...	...	...	...	...	...
Ningyan	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL ...	108,753	103,504	7,662	5,025	13,695	8,570	117,183	113,500	30,803	23,820	6,204	3,628	93,542	87,927	19,672	13,731	5,744	3,025

Statement of Outturn of Foreign Timber for the five years 1885-86 to 1889-90—concluded.

Name of Foreign State.	1888-89. Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.	1889-90. Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.
Karenni	66,358	67,300	6,400	6,000	1,367	700	41,427	36,455	6,862	4,111	1,101	464
Mèhan	935	930	...	...	13	6	1,270	1,096	...	...	...	...
Kyaingtaung	6,365	6,200	866	700	1,210	600	8,339	7,338	1,009	605	2,610	1,096
Mainglôngyi	15,049	16,800	1,333	1,200	852	500	8,711	7,665	930	558	756	317
Thaungyin	11,087	11,200	8,582	8,300	870	500	19,015	16,733	10,050	6,080	3,648	1,532
Dagwin	490	600	627	600	38	20	1,750	1,540	464	278	34	14
Zimmè	4,323	4,400	343	300	250	130	3,283	2,869	174	105	354	149
Mehaungthun	7,693	8,900	293	200	52	29	8,810	7,752	162	97	30	12
Maingpan	...	...	...	...	...	...	1,030	908	240	143	120	50
Mônpè	149	140	...	...	...	...	30	25	27	16	...	...
Maingtun	...	...	...	...	...	...	307	270	1	...	284	119
Upper Thaungyin ...	...	...	...	...	...	...	...	...	...	...	...	...
Ningyan	...	...	...	...	...	...	396	348	349	209	49	20
GRAND TOTAL ...	112,639	115,970	18,444	17,300	4,672	2,485	94,368	82,998	20,268	12,152	8,986	3,773

Comparison of percentage of increase or decrease as compared with percentage of increase or decrease for the previous year.

		1888-89. Increase per cent.	1888-89. Decrease per cent.	1889-90. Increase per cent.	1889-90. Decrease per cent.
Karenni	Full-sized	33	...	...	38
	Under-sized	54	...	7	...
	Stem pieces	...	1	...	21
Mèhan	Full-sized	...	...	36	...
	Stem pieces	...	...	...	...
Kyaingtaung ...	Full-sized	49	...	31	...
	Under-sized	193	...	17	...
	Stem pieces	215	...	116	...
Mainglôngyi ...	Full-sized	20	...	...	42
	Under-sized	...	25	...	30
	Stem pieces	237	...	...	11
Thaungyin ...	Full-sized	...	27	72	...
	Under-sized	...	19	17	...
	Stem pieces	...	70	312	...
Dagwin	Full-sized	...	73	92	...
	Under-sized	...	59	...	26
	Stem pieces	31	...	...	11
Zimmè	Full-sized	...	41	...	24
	Under-sized	...	66	...	49
	Stem pieces	...	72	42	...
Mehaungthun ...	Full-sized	238	...	12	...
	Under-sized	82	...	...	45
	Stem pieces	117	...	...	42
Maingpan	Not worked in 1888-89.				
Mônpè	Full-sized	149	...	...	80
Maingtun	Not worked in 1888-89.				
Upper Thaungyin ...	Not worked in 1887-88, 1888-89, and 1889-90.				
Ningyan	Not worked in 1888-89.				

APPENDIX F.

Statement showing the Exports of Timber and other Forest Produce from Moulmein for the year 1889-90.

Articles and countries to which exported.		Quantity.	Value.
			Rs.
Wood—			
Teak—			
To United Kingdom	Cubic tons.	23,535	27,96,148
" France, Marseilles	"	23	3,998
" Belgium	"	50	6,025
" Germany	"	50	6,031
" Italy, Naples	"	403	40,510
" Italy, Spezzia	"	1,708	80,488
" Spain, Gibraltar	"	663	1,28,707
" Egypt, Port Said	"	2,016	2,41,619
" Mauritius	"	729	58,506
" Ceylon	"	441	27,732
" Straits Settlements	"	46	7,900
" Bengal, Calcutta	"	21,160	15,36,132
" Bengal, other ports	"	840	22,097
" Bombay, Bombay	"	19,810	19,78,998
" Madras, Madras	"	1,750	1,19,420
" Madras, other ports	"	4,631	2,03,207
" Provincial ports	"	3,020	2,78,771
" Pondicherry	"	2,448	1,04,214
Total ...		80,871	70,05,858
Other timber—			
To United Kingdom	Tons	56	2,717
" Bengal, Calcutta	"	3,007	1,61,701
" Bengal, other ports	"	35	2,043
" Bombay, Bombay	"	725	26,449
" Madras, Madras	"	102	10,080
" Madras, other ports	"	339	9,437
" Provincial ports	"	1,391	66,093
" Pondicherry	"	1	30
Total ...		5,256	2,78,572
Sandal wood—			
To Provincial ports	Tons	...	91
Teak Railway keys—			
To Bengal, Calcutta	Cwt.	4,879	11,045
" Bombay, Bombay	"	2,199	4,713
Total ...		7,078	15,758
Wooden sleepers—			
To Bengal, Calcutta	Cwt.	6,786	17,320
" Provincial ports	"	5	10
Total ...		6,791	17,330
Wood—			
Teak—			
Manufactures of—			
To United Kingdom	...	...	640
" France, Marseilles	...	...	199
" Egypt, Port Said	...	...	992
" Mauritius	...	...	33,848
" Ceylon	...	...	13,650
" Straits Settlements	...	...	24,037
" Bengal, Calcutta	...	...	86,773
" Madras, other ports	...	...	521
" Provincial ports	...	...	55,607
" Pondicherry	...	...	43
Total ...		...	1,76,897
Oils—			
Wood—			
To Bengal, Calcutta	Gallons		
" Madras, other ports	"	3	12
" Provincial ports	"	458	410
		10	15
Total ...		471	437

APPENDIX G.

Summary of Revenue of the different Divisions of the Tenasserim Circle for the year 1889-90.

Budget heads—revenue.	Ataran.	Kado.	East Salween.	West Salween.	Tavoy.	Mergui.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.—Timber and other Produce removed from the Forests by Government Agency—							
(a) Timber ...	47,747 4 10	.....	2,60,536 11 9	1,33,924 15 0	3,675 0 9	.....	4,45,884 0 4
(b) Firewood and charcoal	.....	.....	.....	.....	.....	.....	.....
(c) Bamboos	.....	.....	.....	.....	7 8 0	.....	7 8 0
(d) Sandal-wood	.....	.....	.....	.....	.....	.....	.....
(e) Grass and other minor produce	.....	.....	.....	.....	.....	.....	.....
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—							
(a) Timber ...	17,759 3 10	6,751 13 0	10,866 9 0	2,326 4 4	8,006 9 9	4,347 12 6	50,058 4 5
(b) Firewood and charcoal	222 0 0	.....	.....	4 8 0	.....	8 8 0	235 0 0
(c) Bamboos	.....	.....	.....	.....	12 8 0	.....	12 8 0
(d) Grazing and fodder grass	.....	.....	.....	.....	.....	.....	.....
(e) Other minor produce	168 0 0	24 0 0	.....	.....	893 0 0	716 0 0	1,801 0 0
III.—Drift and Waif Wood and Confiscated Forest Produce	.....	65,998 0 0	.....	.....	234 2 0	49 8 0	66,281 10 0
IV.—Revenue from Forests not managed by Government—							
(a) Duty on foreign timber and other forest produce	.....	1,39,014 0 0	.....	.....	.....	.....	1,29,014 0 0
(b) Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....
V.—Miscellaneous—							
(a) Fines and forfeitures	331 9 0	9,204 6 6	923 0 0	57 0 0	281 0 0	66 0 0	10,162 15 6
(b) Refunds	47 8 0	22 0 0	.....	.....	.....	.....	69 8 0
(c) Other sources	168 13 6	19,509 9 6	39 0 0	.....	174 14 0	139 4 0	20,031 9 0
Total Revenue	66,444 7 2	2,40,523 13 0	2,71,665 4 9	1,36,312 11 4	13,264 10 6	5,327 0 6	7,33,557 15 3

APPENDIX G.

Summary of Expenditure of the different Divisions of the Tenasserim Circle for the year 1889-90.

Budget head—expenditure.	Ataran.	Kado.	East Salween.	West Salween.	Tavoy.	Mergui.	Total.
A.—CONSERVANCY AND WORKS.							
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—							
(a) Timber ...	22,875 3 5	.....	1,04,913 2 8	78,294 15 6	6,917 1 8	.....	2,12,940 7 3
(b) Firewood and charcoal	.....	.....	.....	.....	.....	.....	.....
(c) Bamboos	.....	.....	.....	.....	.....	.....	.....
(d) Sandal-wood	.....	.....	.....	.....	.....	.....	.....
(e) Grass and other minor produce	.....	.....	.....	.....	.....	.....	.....
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.	211 0 0	953 0 9	60 0 0	5 0 0	.....	.....	1,239 0 9
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE	12 0 0	31,612 9 10	.....	.....	50 4 0	26 5 4	31,701 3 2
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—							
(a) Duty on foreign timber and other forest produce	.....	7,090 0 0	.....	.....	.....	.....	7,090 0 0
(b) Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.	.....	.....	.....	.....	.....	.....	.....
VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—							
(a) Purchase of cattle	2,000 0 0	.....	870 0 0	.....	.....	.....	2,870 0 0
(b) Feed and keep of cattle	1,749 12 4	.....	782 5 2	668 4 0	.....	.....	3,200 5 6
(c) Purchase of stores, tools and plant	622 6 5	684 6 0	1,142 0 8	250 12 8	118 13 0	27 6 0	2,845 12 9
VII.—COMMUNICATIONS AND BUILDINGS—							
(a) Roads and bridges	.....	.....	.....	.....	.....	.....	.....
(b) Buildings	331 2 0	1,025 9 5	749 5 9	102 0 0	.....	8 12 0	2,216 13 2
(c) Other works	.....	.....	.....	.....	.....	.....	.....
VIII.—DEMARCATION, IMPROVEMENTS AND EXTENSION OF FORESTS—							
(a) Demarcation	30 3 0	.....	144 13 4	5 4 0	69 6 9	.....	258 5 1
(b) Compensation for land and rights	.....	.....	.....	.....	.....	.....	.....
(c) Surveys and working plans	15 8 0	.....	62 8 0	49 0 0	.....	.....	127 0 0
(d) Sowing and planting	1,234 0 0	.....	2,533 0 0	6,872 5 0	.....	1,043 7 5	11,682 12 5
(e) Protection from fire	449 6 0	.....	2,054 14 3	2,800 12 0	.....	.....	5,306 0 3
(f) Other works	.....	.....	.....	.....	103 2 9	.....	103 2 9
IX.—MISCELLANEOUS—							
(a) Refunds	.....	282 0 0	.....	.....	.....	.....	282 0 0
(b) Law charges	.....	771 2 0	.....	.....	.....	.....	771 2 0
(c) Other charges	315 12 0	2,070 8 0	639 13 4	151 5 8	95 13 6	10 14 6	3,284 3 0
Total A.—Conservancy and works	29,795 5 2	44,499 4 0	1,13,951 15 2	89,199 10 10	7,354 3 8	1,116 13 3	2,85,917 4 1
B.—ESTABLISHMENTS.							
I.—SALARIES—							
(a) Conservators	12,306 7 3	.....	.....	.....	.....	.....	12,306 7 3
(b) Superior officers	7,777 6 8	7,800 0 0	7,800 0 0	3,600 0 0	2,198 8 0	801 8 0	29,977 6 8
(c) Subordinate forest and depôt establishments	2,370 14 0	7,631 4 1	2,794 7 5	2,027 12 0	1,616 7 2	811 8 4	17,234 5 0
(d) Office establishment	6,175 12 0	5,829 7 7	1,256 2 0	1,846 2 0	1,231 0 0	627 0 0	16,965 7 7
(e) Deputation and special allowances	.....	.....	.....	.....	.....	.....	.....
II.—TRAVELLING ALLOWANCES—							
(a) Conservator	1,752 5 3	.....	.....	.....	.....	.....	1,752 5 3
(b) Superior officers	1,113 12 0	2,052 12 0	1,329 8 0	325 0 0	556 12 0	450 13 3	5,847 9 3
(c) Subordinate forest and depôt establishments	345 12 9	655 9 0	598 8 0	330 2 0	333 12 0	.....	2,273 11 9
(d) Office establishments	97 5 4	13 8 0	10 0 0	34 4 9	16 10 0	53 2 0	224 14 1
III.—CONTINGENCIES—							
(a) Stationery	.....	.....	.....	.....	.....	.....	.....
(b) Carriage of tents and records	33 8 0	31 8 0	77 12 0	.....	.....	.....	142 12 0
(c) Rents, rates, and taxes	16 12 6	29 3 9	15 6 3	15 6 3	.....	.....	76 13 9
(d) Pay of police guards	.....	.....	.....	.....	.....	.....	.....
(e) Official postage	100 13 4	93 7 0	21 7 4	21 12 4	22 8 0	3 12 0	263 12 0
(f) Sundries	576 11 6	85 9 0	124 8 6	119 15 6	88 2 9	34 6 3	1,029 5 6
Total B.—Establishments	32,667 8 7	24,232 4 5	14,027 11 6	7,700 6 10	6,075 11 11	2,601 1 10	87,304 13 1
GRAND TOTAL OF ALL EXPENDITURE	62,462 13 9	68,731 8 5	1,27,979 10 8	96,900 1 8	13,429 15 7	3,807 15 1	3,73,312 1 2

APPENDIX H.

TENASSERIM CIRCLE.

Number of Logs Imported by the Principal Thitgaungs during the year 1889-90.

No.	Name.	Number of logs.
1	Ko Taw A ...	9,735
2	Ko Mo ...	7,634
3	Ko Lu Galè	5,837
4	Ko Pha Nyin	5,066
5	Ko Pôn ...	3,443
6	Kyaungtaga Kyè	2,900
7	Ko Nga Ak ...	2,642
8	Ko Kya ...	2,155
9	Ko Pha Rwe	1,690
10	Ko Tha Aung	1,604
11	Ko Po O ...	1,234
12	Ko Ôn ...	1,178
13	Ko Pan ...	1,131
14	Mah Bwin ...	1,023
15	Kyaungtaga Kyan	1,010

APPENDIX I.

TENASSERIM CIRCLE.

List showing the Names of the Principal Exporters of Teak from the 1st April 1889 to the 31st March 1890.

Name of firm.	Tons.	Remarks.
Messrs. The Bombay Burma Trading Corporation, Limited ...	17,628	There were in all 90,408 tons of timber shipped from this port by Government, petty shippers, Chettiers, &c.
Messrs. T. D. Findlay Bodeker and Co. ...	13,488	
Messrs. Ferdinand Foucar and Co. ...	10,820	
Messrs W. Strang Steel and Co. ...	6,669	
Babu Bhugwan Dass ...	6,461	
Babu Bullub Dass ...	6,098	
Babu Munraj Morlidhar ...	3,881	
Messrs. Agu Syed Abdool Hussein ...	2,485	
Messrs. Hajee Mahomed Usoof and Co. ...	1,963	
Messrs. Abdul Majeed Brothers and Co. ...	1,605	
Messrs. Limouzin and Co. ...	1,513	
Messrs. A. B. Crisp and Co. ...	1,484	
Messrs. Visram Ebrahim and Co. ...	1,151	
Abdulla Cassim ...	1,151	
Messrs. Mirza Abdul Hussein and Co. ...	1,009	

APPENDIX J.

TENASSERIM CIRCLE.

Statement showing the Sale Prices of Teak Timber at Home during each month of the official year 1889-90.

Month.		Sale price of Timber per Ton (average). From	Sale price of Timber per Ton (average). To	Freight per ton.	Remarks.
		£ s. d.	£ s. d.	£. s. d.	
April	1889	11 0 0	12 10 0	0 47 6	
May	"	...	...	0 50 0	
June	"	...	...	0 50 0	
July	"	...	...	0 52 6	
August	"	...	...	0 52 6	
September	"	...	...	...	
October	"	...	...	0 50 0	
November	"	...	...	...	
December	"	10 0 0	11 10 0	...	
January	1890	...	...	...	
February	"	9 10 0	11 0 0	0 47 6	
March	"	...	...	...	

APPENDIX J (1).

TENASSERIM CIRCLE.

Statement showing the Market Rate of Teak Timber in the Indian Market for the year 1889-90.

Month.	Bombay.				Calcutta.				Remarks.
	Squares.		Scantlings.		Squares.		Scantlings.		
	From	To	From	To	From	To	From	To	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
April 1889	65	95	90	95	65	90	85	90	
May "	65	90	85	90	70	90	85	90	
June "	65	90	85	90	70	90	95	90	
July "	65	85	85	90	65	90	90	95	
August "	65	85	85	90	65	90	90	95	
September "	65	85	85	90	75	90	90	95	
October "	65	85	85	90	70	90	90	95	
November "	65	85	85	90	70	90	95	100	
December "	65	85	85	90	70	95	95	100	
January 1890	65	80	85	90	70	95	95	100	
February "	65	80	85	90	70	95	95	100	
March "	65	80	85	90	70	90	95	100	

APPENDIX K.

PEGU CIRCLE.

Selling Rates in the Home Market for 1889-90,—Churchill and Sims.

		£ s. d.		£ s. d.
April 1890	...	11 0 0	to	15 0 0
May "	...	11 0 0	to	15 0 0
June "	...	11 0 0	to	15 0 0
July "	...	11 0 0	to	15 0 0
August "	...	11 10 0	to	16 0 0
September "	...	11 10 0	to	16 0 0
October "	...	11 10 0	to	16 0 0
November "	...	11 10 0	to	16 0 0
December "	...	11 10 0	to	16 0 0
January 1890	...	11 0 0	to	15 0 0
February "	...	11 0 0	to	15 0 0
March "	...	11 0 0	to	15 0 0

APPENDIX L.

PEGU CIRCLE.

Annual Return of Jungle Woods and Bamboos passed at the Government Timber Depôt and Pazundaung Revenue Station from 1st April 1889 to 31st March 1890.

Description of timber.		Logs.	Total.	Remarks.		
					Rs. A. P.	
Logs ...	In	1,593		Sold in the market at	14 9 9	per log.
	Pyinkado	1,109		Ditto	10 11 2	
	Taukyan	813		Ditto	5 2 2	
	Thayet	532		Ditto	4 8 2	
	Firewood	642	4,279	Ditto	5 1 0	
					Rs. A. P. Rs. A. P.	
Bamboos ...	Myin	747,150		Soldin the market at	150 8 4 to 225 8 4	per 10,000.
	Kyathaung	255,050		Ditto	363 0 4 to 472 6 0	
	Tin...	114,900		Ditto	307 13 0 to 447 14 8	
	Talagu	7,600	1,124,800	Ditto	300 0 0 to 400 0 0	
	GRAND TOTAL ...	...	1,129,079			

APPENDIX M.

PEGU CIRCLE.

		Rs. A. P.	
April 1889	...	54 0 6	per ton.
May "	...	49 9 7	
June "	...	51 7 6	
July "	...	50 13 6	
August "	...	51 4 9	
September "	...	53 13 1	
October "	...	49 14 1	
November "	...	42 6 0	
December "	...	51 11 11	
January 1890	...	45 6 11	
February "	...	52 5 6	
March "	...	50 1 3	

APPENDIX N.—PEGU CIRCLE.

Division.	Balance on 1st April 1889.				Arrivals during the year.				Sales and disposals during the year.				Balance on 31st March 1890.			
	Logs.				*Logs and scantlings.*				*Logs and scantlings.*				*Logs.*			
	Teak.	Teak drift.	Other woods.	Other woods, drift.	Teak.	Teak drift.	Other woods.	Other woods, drift.	Teak.	Teak drift.	Other woods.	Other woods, drift.	Teak.	Teak drift.	Other woods.	Other woods, drift.
Thayetmyo	...	...	...	...	448	...	9	...	...	...	9	...	448	...	...	...
Prome	821	...	...	...	1,412	...	...	...	866	...	...	...	1,367	...	...	...
Tharrawaddy	10,989	3	...	...	16,644	106	1	...	12,193	109	...	...	14,729	...	1	...
Rangoon	5,666	...	4	...	5,861	698	...	2	5,905	687	4	2	5,622	11	...	...
Toungoo	2,179	...	...	...	8,137	...	...	...	6,705	...	...	...	3,611	...	...	...
Shwegyin	84	...	...	...	557	...	...	...	85	...	...	...	556	...	...	...
Western	...	...	...	...	...	81	...	...	...	66	...	...	...	15	...	...
Agency	44	55	...	...	...	746	...	5	2	557	...	2	42	244	...	3
Total ...	19,077	58	4	...	33,059	1,631	10	7	25,761	1,419	13	4	26,375	270	1	3

Sleepers.

APPENDIX O.—PEGU CIRCLE.

Division.	How extracted.	Teak.	Other reserved trees.	Unreserved trees. Logs.	Unreserved trees. Posts and poles.	Cutch.	Wood-oil and resin.	Shaw bark.	Thatch.	Honey.	Cattle grazed.	Bamboos.	Canes	Fuel.	Cheroot leaves.
		C. feet.	C. feet.	C. feet.	C. feet.	1,000 viss.	Viss.	100 viss.	Bundles.	Viss.	Head.	Mills.	No.	C. feet.	Viss.
THAYETMYO	By Government agency	36,950	—	70	...	...	...	...	...	...	...	...	...	...	...
	" purchasers	10,090	...	559,950	199,090	1,505	4,000	...	...	...	...	11	...	11,700	...
	" free grants	300	...	...	...	...	...	...	...	...	...	...	...	...	...
PROME	By Government agency	91,950	...	4,100	500	...	...	...	...	...	...	...	...	50	...
	" purchasers	28,400	...	229,910	25,920	305	31,200	75	150	...	...	7	...	35,650	...
	" free grants	250	...	...	...	...	...	...	...	...	...	...	...	...	...
THARRAWADDY.	By Government agency	1,568,800	...	...	...	...	...	...	...	...	...	...	...	...	...
	" purchasers	25,810	5,500	358,150	2,650	1,009	7,375	133	790	250	193	1,072	250	59,168	1,450
	" free grants	100	...	...	...	...	...	...	...	...	...	...	...	...	...
	" right-holders	...	...	...	...	...	...	2	5,500	...	1,598	53	4,060	...	...
RANGOON	By Government agency	326,550	...	4,100	...	...	...	...	...	...	...	...	...	...	...
	" purchasers	50	6,550	490,030	...	...	124	107	450	...	414	969	350	27,400	40
	" free grants	100	50	...	...	...	...	...	...	...	...	...	...	...	...
TOUNGOO	By Government agency	373,800	...	...	...	...	...	...	...	...	...	...	...	...	...
	" purchasers	590,200	20,060	491,970	640,070	22	12,920	1	...	...	...	101	...	13,963	...
	" free grants	1,350	550	...	...	...	...	...	...	...	...	...	...	...	...
	" right-holders	...	...	...	...	...	...	...	450	...	59	5	...	...	...
SHWEGYIN	By Government agency	62,500	8,640	...	...	...	...	...	...	...	...	...	...	...	...
	" purchasers	92,780	24,550	361,930	233,050	...	4,200	...	...	...	...	5	...	25,020	...
	" free grants	...	550	900	...	...	...	...	...	...	...	...	...	...	...
WESTERN	By Government agency	10,250	...	5,300	...	...	...	...	...	...	...	...	...	...	...
	" purchasers	2,780	19,810	741,470	733,290	56	64	...	...	...	...	...	...	9,800	...
	" free grants	950	4,100	750	...	...	...	...	...	...	...	...	...	...	...
AGENCY	By purchasers	...	...	...	26,010	...	...	...	...	...	...	...	...	435,303	...
TOTAL	By Government agency	2,470,800	8,640	13,970	500	...	...	...	...	...	...	...	...	50	...
	" purchasers	750,110	76,470	3,253,410	1,880,080	2,897	59,863	316	1,390	250	607	2,165	600	617,319	1,490
	" free grants	3,250	5,250	1,850	...	...	...	...	...	...	...	...	...	...	...
	" right-holders	...	...	...	...	...	...	2	5,950	...	1,657	58	4,060	...	...
	Total ...	3,224,160	90,360	3,268,630	1,880,580	2,897	59,863	318	7,340	250	2,264	2,223	4,660	617,369	1,490

APPENDIX P.

PEGU CIRCLE

Statement showing proposed Plan of Operations and Work effected

Division	Operations	
	Proposed	Done
THAYETMYO	Girdling of 600 teak trees	666 teak girdled
	1 150 teak logs to be extracted by Government agency	952 logs extracted
	Settlement proposed Onezan and Thègon reserves	Settlement carried out
	Reserve boundary marks to be repaired	Carried out in the Myodè range
	100 acres teak and cutch taungyas	170 acres planted up
	Last year's yas to be weeded	Carried out
	Fire protection of Lindaw reserve	Plantations only protected
	Examination of forests of Mindôn valley	Partially examined
PEGU	Girdling of 500 teak trees	500 girdled
	Extraction of 800 teak logs by Government agency	2 352 logs worked out
	Promome plantation to be thinned	Thinned
	Teak taungyas in Chaungsauk reserve	196 acres planted
	Taungyas of previous years to be cleared	1 210 acres cleared
	Inspection of and repairs to reserve boundary marks	All injected and boards, &c renewed round all Sinmaw Paukaw and Nyaungbin let excepted
	Fire-protection of Chaungsauk reserve	Carried out
	Selection and demarcation of teak clumps in plains	Could not be carried out
THARRAWADDY	Girdling of 5 000 teak trees	4 935 trees girdled
	Extraction of 26 000 teak logs	55 435 logs extracted
	Improvement of cart-tracks in Bilin Bawbin and Thônzè	A new track cleared in Bawbin reserve
	Erection of five rest houses	One built at Kangyi
	Closing breaches in Tamingyo chaung	Work in hand
	1 200 acres of teak taungyas	1 000 acres planted
	Weeding of old taungyas and sowings	Carried out
	Fire protection of various reserves	Done
	Maintenance of forest garden at Tharrawaddy	Maintained
RANGOON	Girdling of 1 000 teak trees	1 002 teak girdled
	6 000 teak logs to be worked out departmentally	5 806 teak logs extracted
	Demarcation of South Zamaye reserve	Demarcated
	Repairs of reserve boundary marks	Thabyu Kyun chaung Hlaing Yma and Paungbin reserves boundary marks renewed
	200 acres teak taungyas	183 acres planted up
	25 acres regular plantation at Magayi	27 acres planted at Magayi and 3 acres at Kyetpyugan
	Teak yas and plantation of last 2 years to be cleared	Carried out
	Fire protection of various reserves	Carried out
	Creeper-cutting &c in conjunction with the girdling	Partially carried out
	Repairs to bungalows &c	Carried out
TOUNGOO	Annual plan as proposed	Carried out.
SHWEGYIN	Girdling of 600 teak trees	600 teak girdled
	Extraction of 3 000 girdled and dead teak	1 816 logs worked out
	Demarcation of Yenwè and Nyabwa reserves	Demarcation completed
	Renewal of old boundary marks	Carried out
	25 acres teak taungyas to be planted	Not planted
	Collection of 3 150 drift logs	3,941 logs collected
	Removal of Myitkyo bungalow	Removed
WESTERN	Annual plan as proposed	Carried out

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